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ATLAS

To Accompany a Report on the

Fishes of Illinois

S. A. Forbes R. E. Richardson

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NATURAL HISTORY SURVEY OF ILLINOIS
STATE LABORATORY OF NATURAL HISTORY
S, A. FORBES, DIRECTOR

Maps

Showing Distribution of Illinois Fishes

to Accompany a Report on the

Fishes of Illinois

BY

STEPHEN ALFRED FORBES, PH.D., LL.D.
AND
ROBERT EARL RICHARDSON, A.M.

1908
PUBLISHED BY
AUTHORITY OF THE STATE LEGISLATURE

ILLINOIS PRINTING COMPANY
DANVILLE, ILLINOIS

List of Maps

The general map of the distribution of collections (Map IV.) shows, by the location of the red spots, all the localities from which collections of fishes have been made by us in the work of the Natural History Survey. The distribution maps for the various species indicate in the same way all the localities from which representatives of the species have been taken. *For an accurate idea of the significance of these species maps, each should be compared with Map IV.*

The following numbered list of the counties of the state corresponds to the figures on these maps.

1. Jo Daviess
2. Stephenson
3. Winnebago
4. Boone
5. McHenry
6. Lake
7. Cook
8. Du Page
9. Kane
10. DeKalb
11. Ogle
12. Lee
13. Carroll
14. Whiteside
15. Rock Island
16. Mercer
17. Henry
18. Bureau
19. Putnam
20. La Salle
21. Kendall
22. Grundy
23. Will
24. Kankakee
25. Iroquois
26. Ford
27. Livingston
28. Marshall
29. Woodford
30. Stark
31. Peoria
32. Knox
33. Warren
34. Henderson
35. Hancock
36. McDonough
37. Fulton
38. Mason
39. Tazewell
40. McLean
41. Vermilion
42. Champaign
43. Piatt
44. Dewitt
45. Logan
46. Menard
47. Cass
48. Schuyler
49. Brown
50. Adams
51. Pike
52. Scott
53. Morgan
54. Sangamon
55. Christian
56. Macon
57. Moultrie
58. Douglas
59. Edgar
60. Clark
61. Coles
62. Cumberland
63. Shelby
64. Montgomery
65. Macoupin
66. Greene
67. Calhoun
68. Jersey
69. Madison
70. Bond
71. Fayette
72. Effingham
73. Jasper
74. Crawford
75. Lawrence
76. Richland
77. Clay
78. Marion
79. Clinton
80. St. Clair
81. Monroe
82. Randolph
83. Washington
84. Perry
85. Jefferson
86. Wayne
87. Edwards
88. Wabash
89. White
90. Hamilton
91. Franklin
92. Jackson
93. Williamson
94. Saline
95. Gallatin
96. Hardin
97. Pope
98. Johnson
99. Union
100. Alexander
101. Pulaski
102. Massac

I. & II. The three sections of Illinois, northern, central, and southern, and the ten stream systems of the state: I., the Galena District, II., the Rock River System, III., the Illinois River System, IV., the Lake Michigan drainage, V., the Mississippi River drainage, VI., the Kaskaskia River System, VII., the Wabash System, VIII., the Big Muddy River System, IX., the Saline River System, and X., the Cairo District.

III. Glacial geology of Illinois.

IV. Localities from which collections were made.

V.—CII. Distribution of species.

CIII. Northern species (●) and southern species (▲) in Illinois.

V. Lepisosteus osseus
VI. L. platostomus
VII. Amia calva
VIII. Dorosoma cepedianum
IX. Ictiobus cyprinella
X. I. urus
XI. I. bubalus
XII. Carpiodes carpio
XIII. C. difformis
XIV. C. velifer
XV. C. thompsoni
XVI. Erimyzon sucetta oblongus
XVII. Minytrema melanops
XVIII. Catostomus commersonii
XIX. C. nigricans
XX. Moxostoma anisurum
XXI. M. aureolum
XXII. M. breviceps
XXIII. Campostoma anomalum
XXIV. Chrosomus erythrogaster
XXV. Hybognathus nuchalis
XXVI. H. nubila
XXVII. Pimephales promelas
XXVIII. P. notatus
XXIX. Semotilus atromaculatus
XXX. Opsopœodus emiliæ
XXXI. Abramis crysoleucas
XXXII. Cliola vigilax
XXXIII. Notropis cayuga
XXXIV. N. heterodon
XXXV. N. blennius
XXXVI. N. gilberti
XXXVII. N. illecebrosus
XXXVIII. N. hudsonius
XXXIX. N. lutrensis
XL. N. whipplii
XLI. N. cornutus
XLII. N. jejunus
XLIII. N. atherinoides
XLIV. N. rubrifrons
XLV. N. umbratilis atripes
XLVI. Ericymba buccata
XLVII. Phenacobius mirabilis
XLVIII. Hybopsis dissimilis
XLIX. H. amblops
L. H. storerianus
LI. H. kentuckiensis
LII. Ictalurus punctatus
LIII. Ameiurus natalis
LIV. A. nebulosus
LV. A. melas
LVI. Leptops olivaris
LVII. Noturus flavus
LVIII. Schilbeodes gyrinus
LIX. S. miurus
LX. Umbra limi
LXI. Esox vermiculatus
LXII. E. lucius
LXIII. Fundulus diaphanus menona
LXIV. F. dispar
LXV. F. notatus
LXVI. Gambusia affinis
LXVII. Percopsis guttatus
LXVIII. Labidesthes sicculus
LXIX. Aphredoderus sayanus
LXX. Pomoxis annularis
LXXI. P. sparoides
LXXII. Centrarchus macropterus
LXXIII. Ambloplites rupestris
LXXIV. Chænobryttus gulosus
LXXV. Lepomis miniatus
LXXVI. L. megalotis
LXXVII. L. humilis
LXXVIII. L. pallidus
LXXIX. Eupomotis gibbosus
LXXX. Micropterus dolomieu
LXXXI. M. salmoides
LXXXII. Stizostedion vitreum
LXXXIII. S. canadense griseum
LXXXIV. Perca flavescens
LXXXV. Percina caprodes
LXXXVI. Hadropterus phoxocephalus
LXXXVII. H. aspro
LXXXVIII. Cottogaster shumardi
LXXXIX. Diplesion blennioides
XC. Boleosoma nigrum
XCI. B. camurum
XCII. Ammocrypta pellucida
XCIII. Etheostoma zonale
XCIV. E. jessiæ
XCV. E. cœruleum
XCVI. E. squamiceps
XCVII. E. flabellare
XCVIII. Boleichthys fusiformis
XCIX. Microperca punctulata
C. Roccus chrysops
CI. Morone interrupta
CII. Aplodinotus grunniens

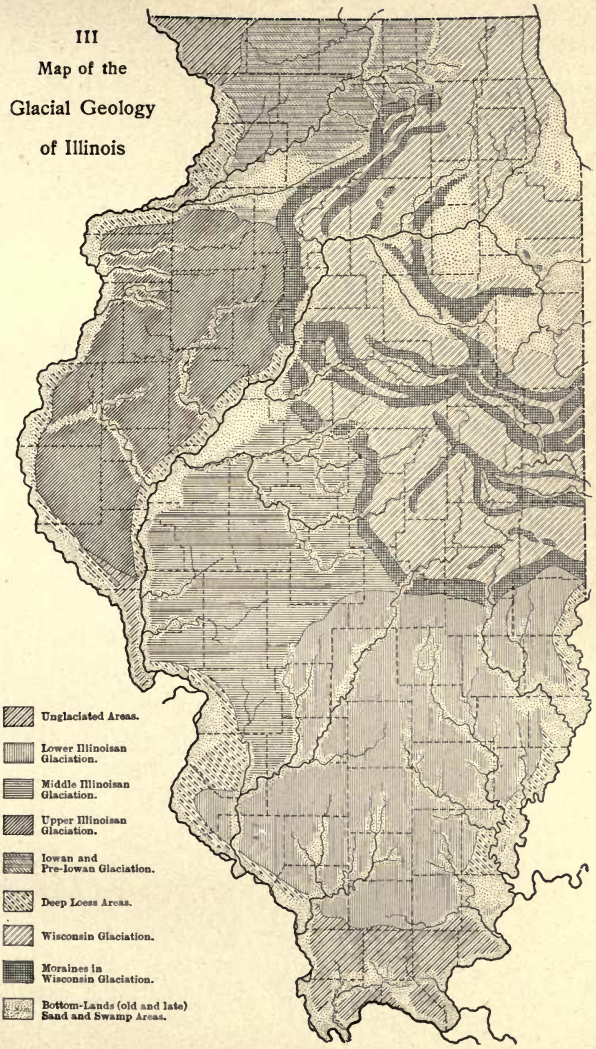
I & II
Stream systems
and
Sections of
Illinois
I
II
III
IV
V
VI
VII
VIII
IX
X
Rock R.
Green R.
Kaskaskia R.
Sangamon R.
Wabash R.
MISSISSIPPI RIVER
OHIO RIVER
Ill. and Mich. Canal
Ill. and Miss. Canal
Drainage Canal
County Seat

III

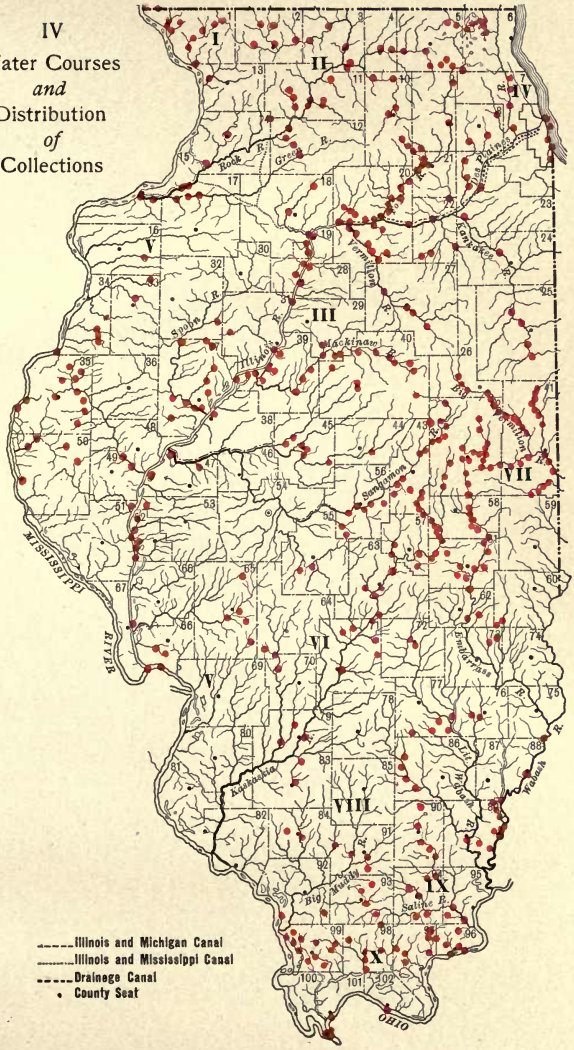
Map of the

Glacial Geology

of Illinois



IV
Water Courses
and
Distribution
of
Collections



V
Distribution
of
Lepisosteus
osseus

VI

Distribution

of

Lepisosteus

platostomus

VII

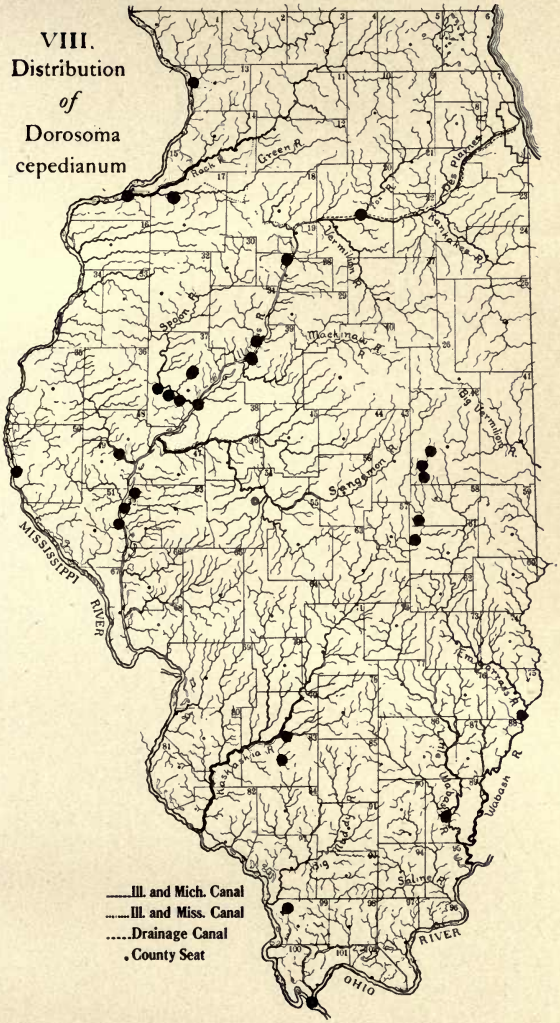
Distribution

of

Amia

calva

VIII.
Distribution
of
Dorosoma
cepedianum



IX
Distribution
of
Ictiobus
cyprinella
Rock R.
Green R.
Des Plaines R.
Illinois R.
Kankakee R.
Vermilion R.
Spoon R.
Mackinaw R.
Sangamon R.
Embarras R.
Wabash R.
Little Wabash R.
Big Muddy R.
Saline R.
Kaskaskia R.
MISSISSIPPI RIVER
OHIO RIVER
Ill. and Mich. Canal
Ill. and Miss. Canal
Drainage Canal
County Seat

X

Distribution *of* Ictiobus urus

XI

Distribution *of* Ictiobus bubalus

XII

Distribution

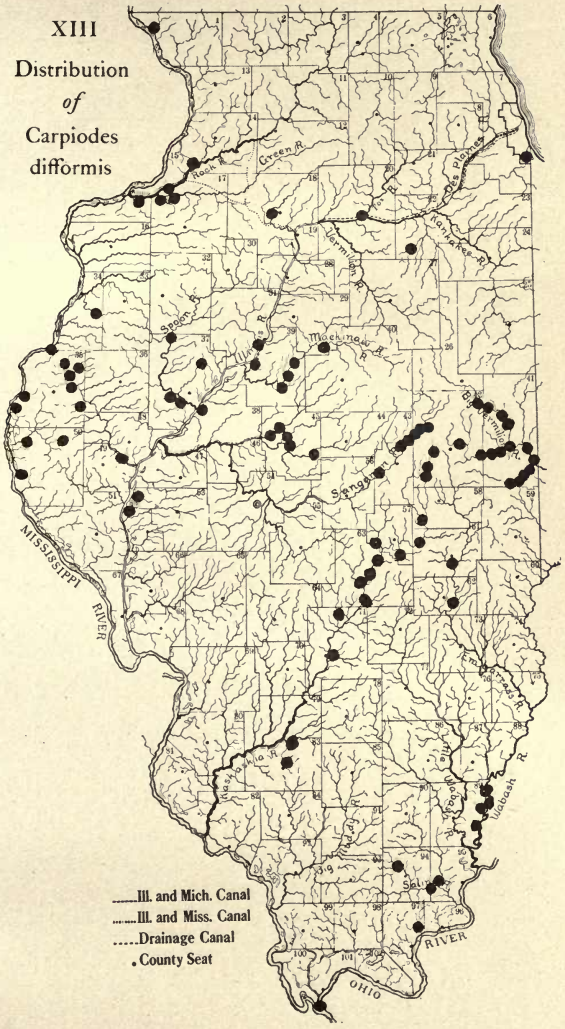
of

Carpiodes

carpio

XIII

Distribution *of* Carpiodes difformis



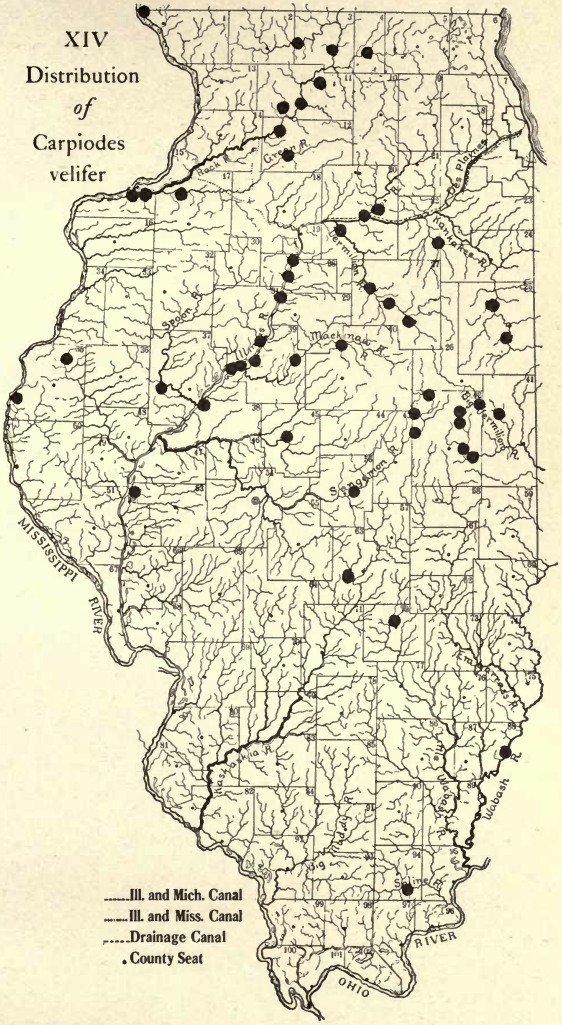
XIV

Distribution

of

Carpiodes

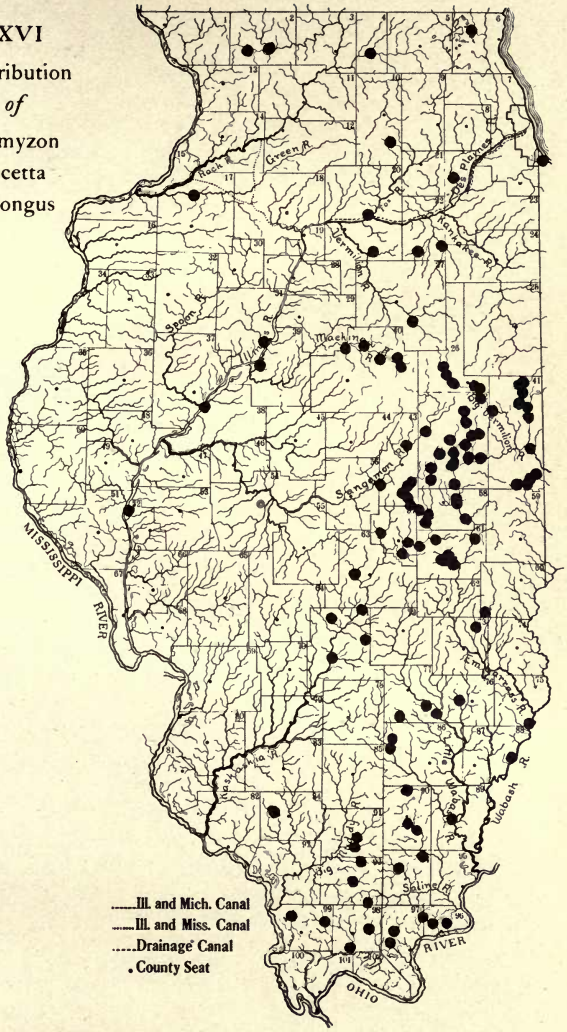
velifer



XV
Distribution
of
Carpiodes
thompsoni

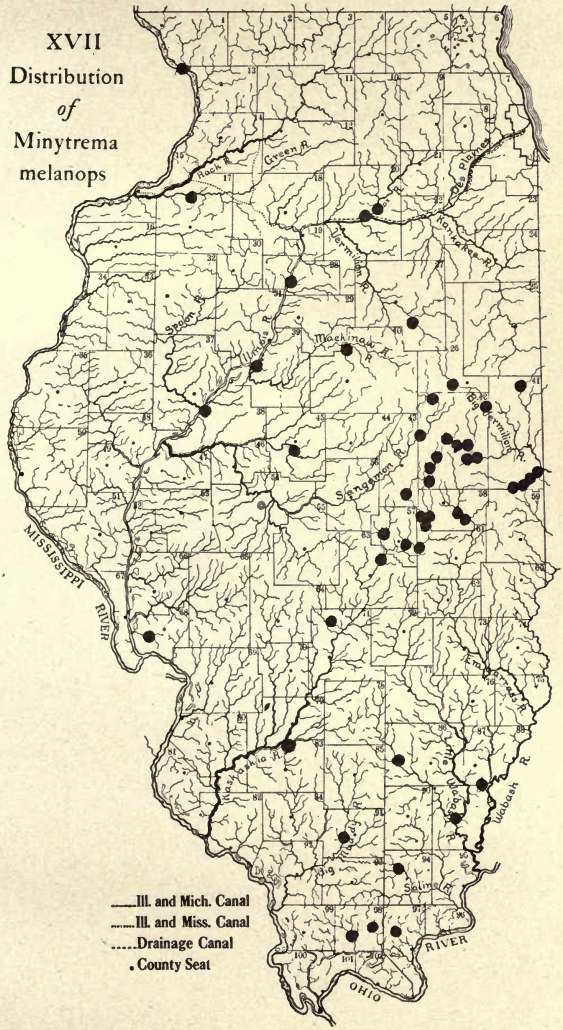
XVI

Distribution *of* Erimyzon sucetta oblongus

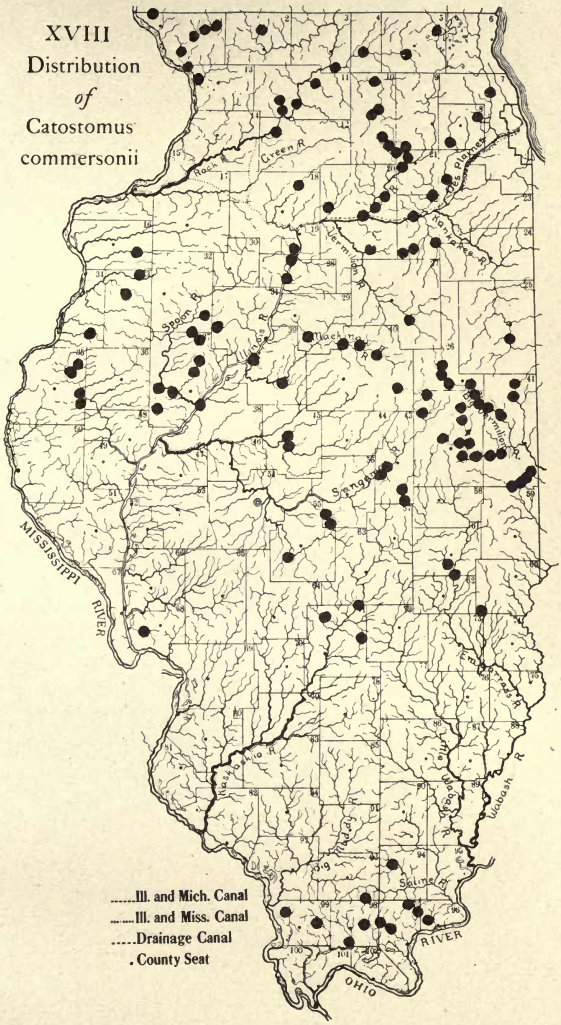


XVII

Distribution *of* Minytrema melanops



XVIII
Distribution
of
Catostomus
commersonii



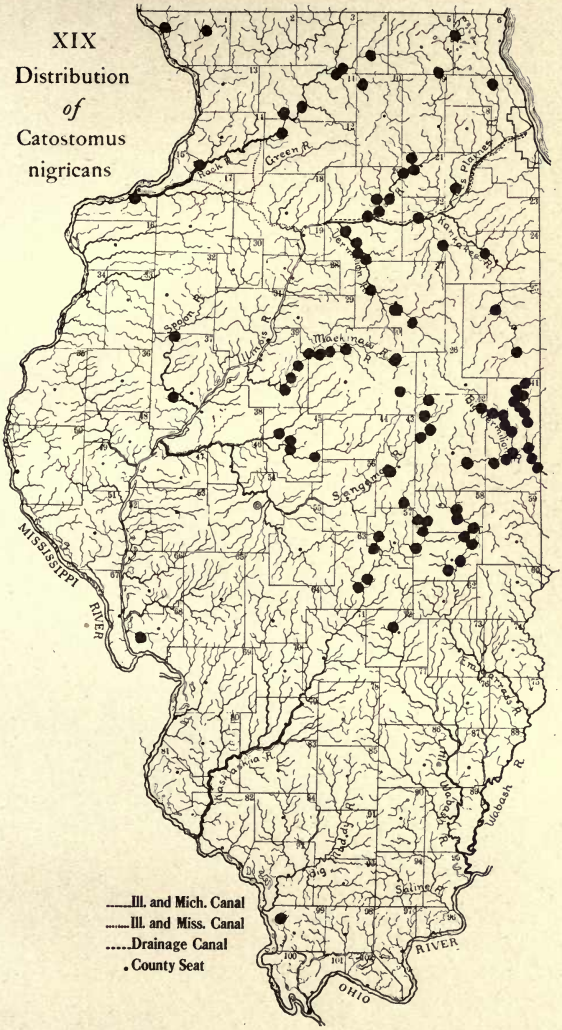
XIX

Distribution

of

Catostomus

nigricans



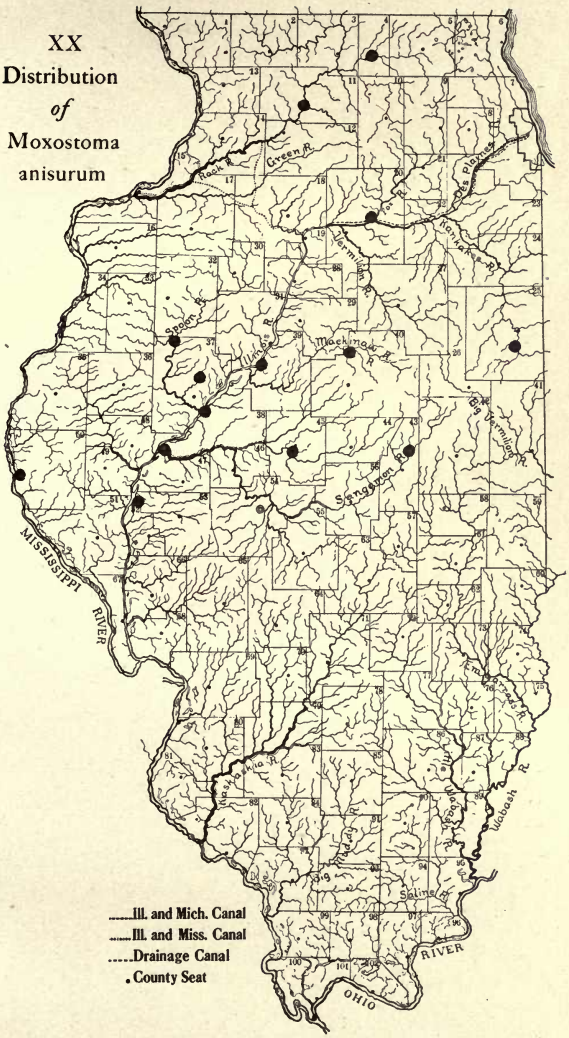
XX

Distribution

of

Moxostoma

anisurum



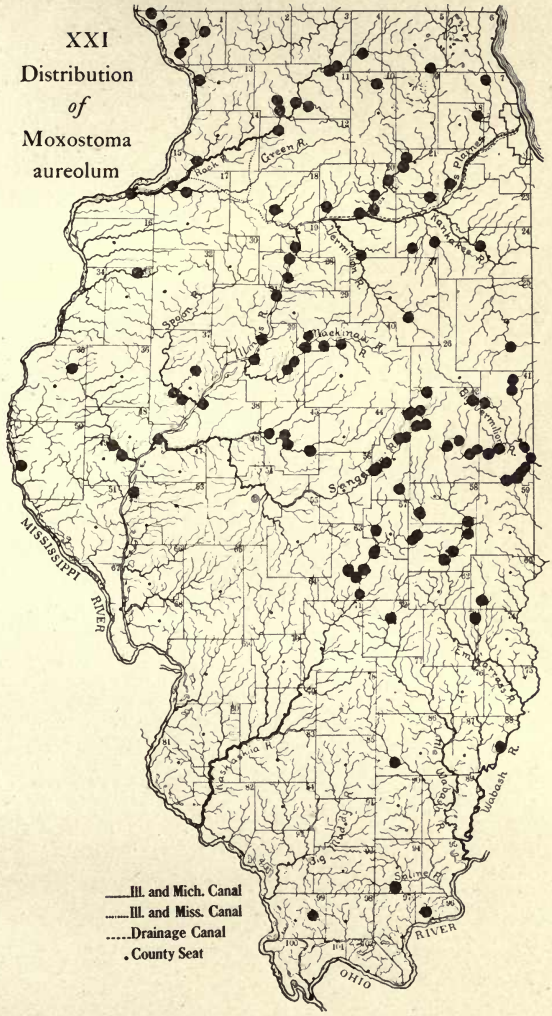
XXI

Distribution

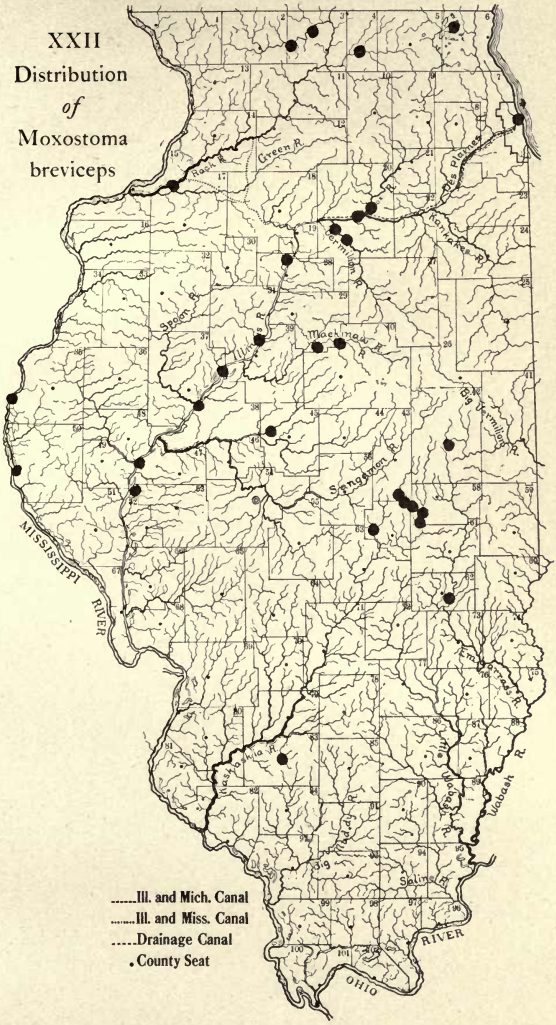
of

Moxostoma

aureolum



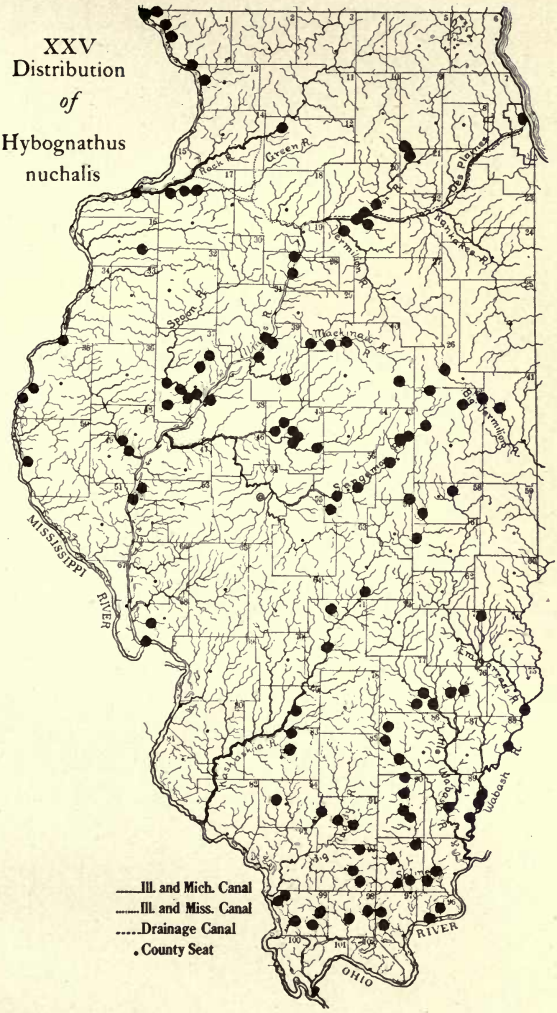
XXII
Distribution
of
Moxostoma
breviceps



XXIII
Distribution
of
Campostoma
anomalum

XXIV
Distribution
of
Chrosomus
erythrogaster

XXV
Distribution
of
Hybognathus
nuchalis



XXVI

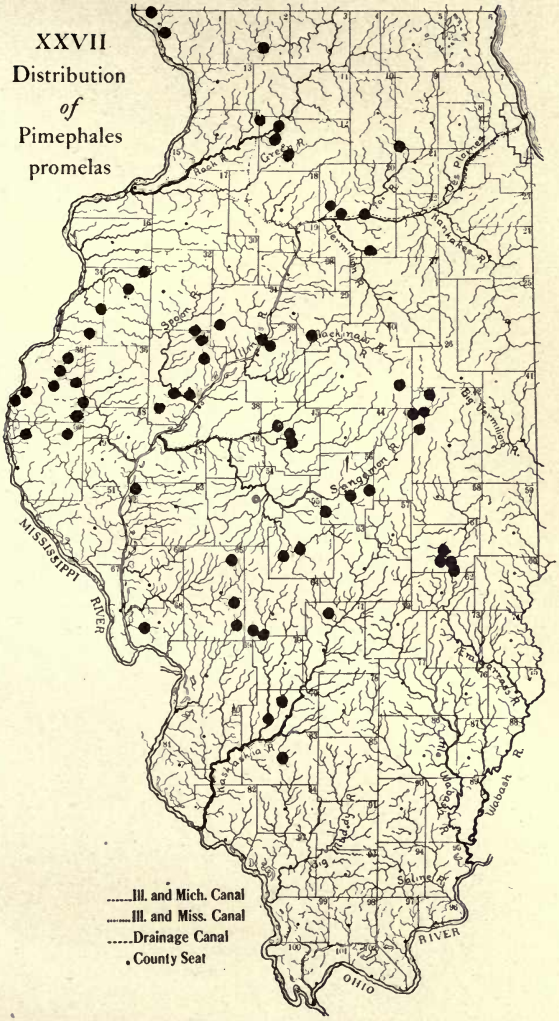
Distribution

of

Hybognathus

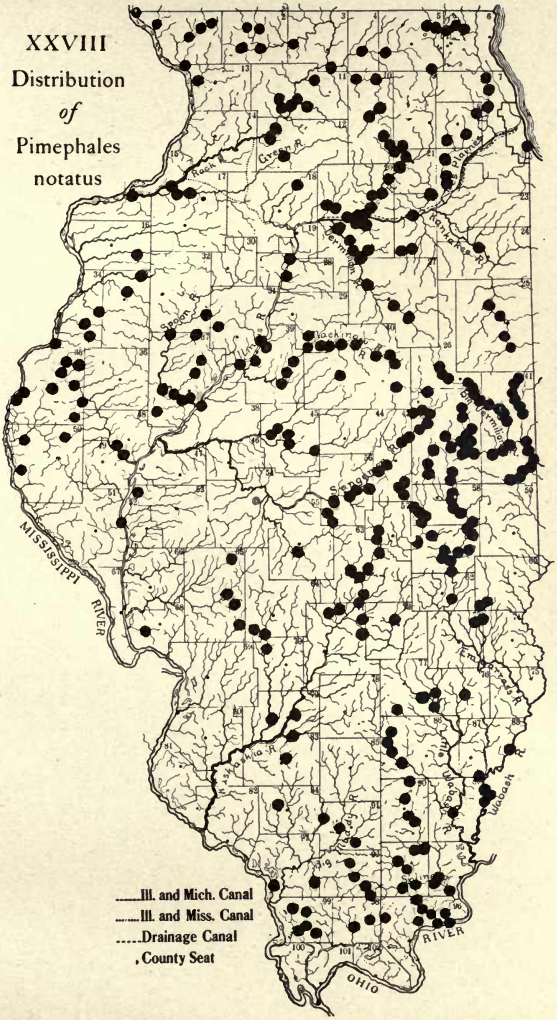
nubila

XXVII
Distribution
of
Pimephales
promelas



XXVIII

Distribution *of* Pimephales notatus



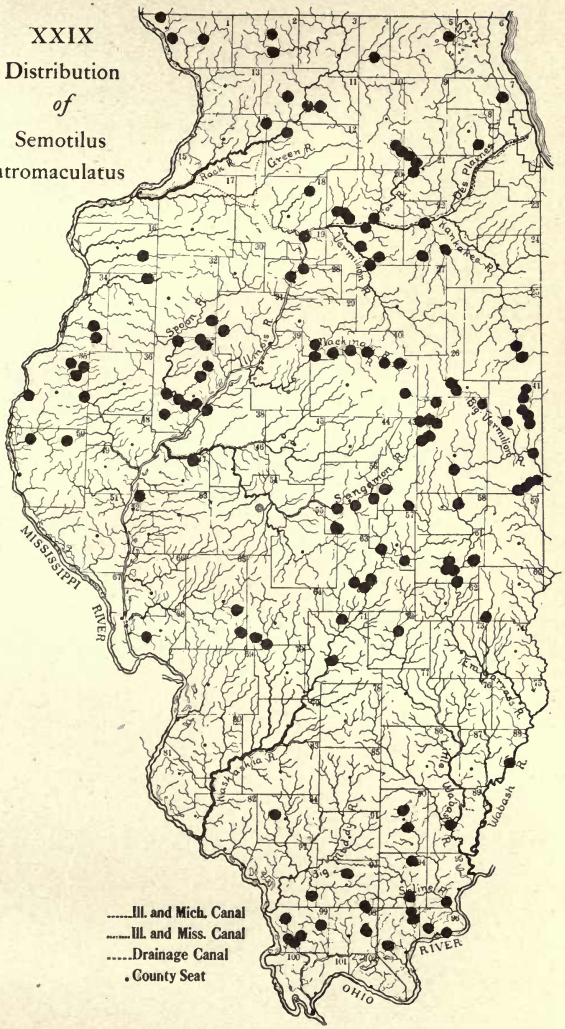
XXIX

Distribution

of

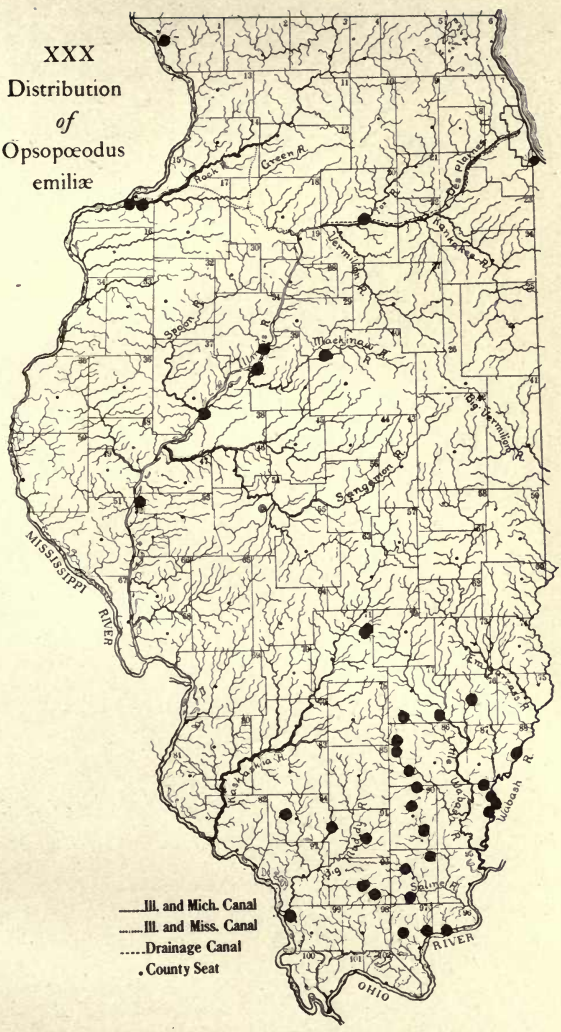
Semotilus

atromaculatus



XXX

Distribution *of* Opsopœodus emiliæ



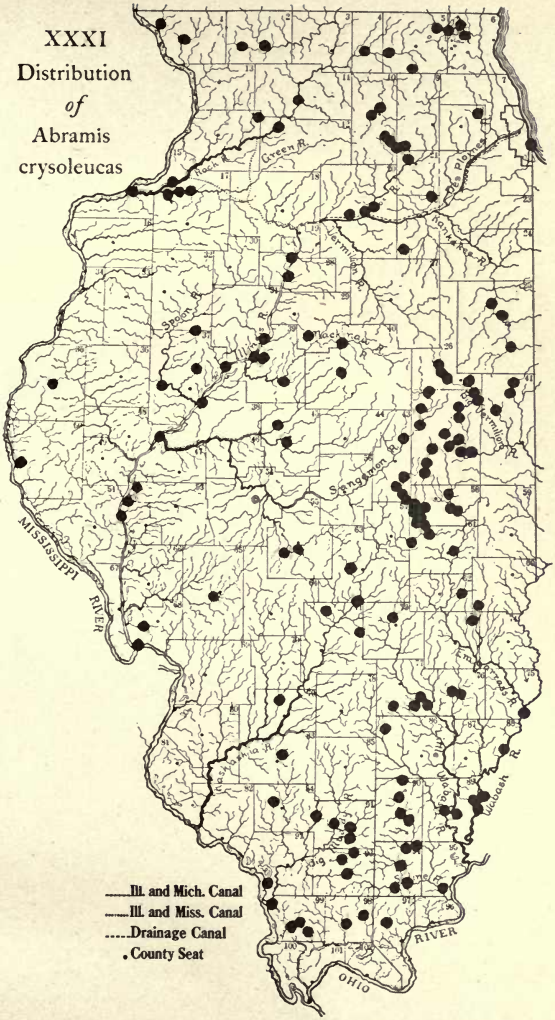
XXXI

Distribution

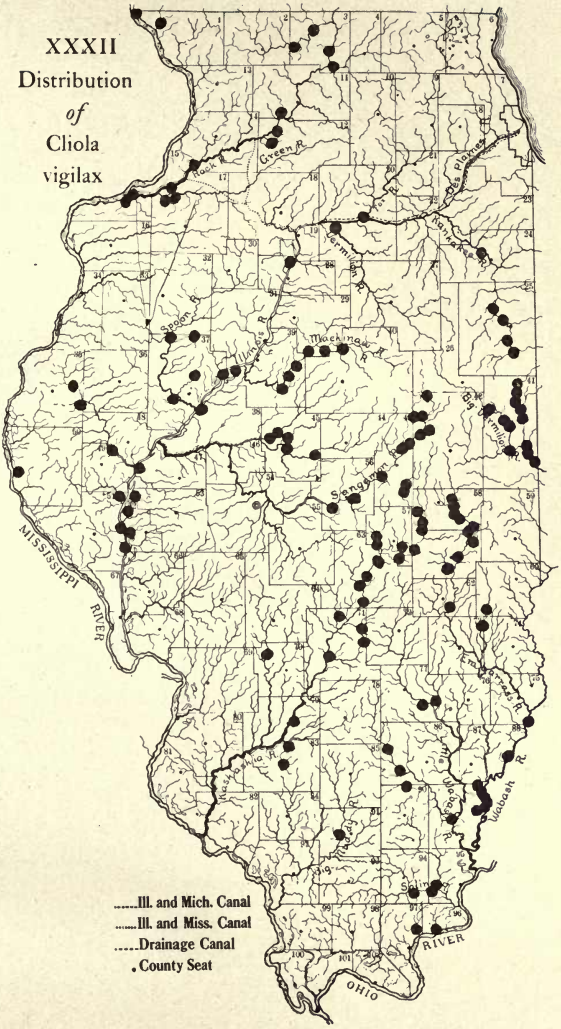
of

Abramis

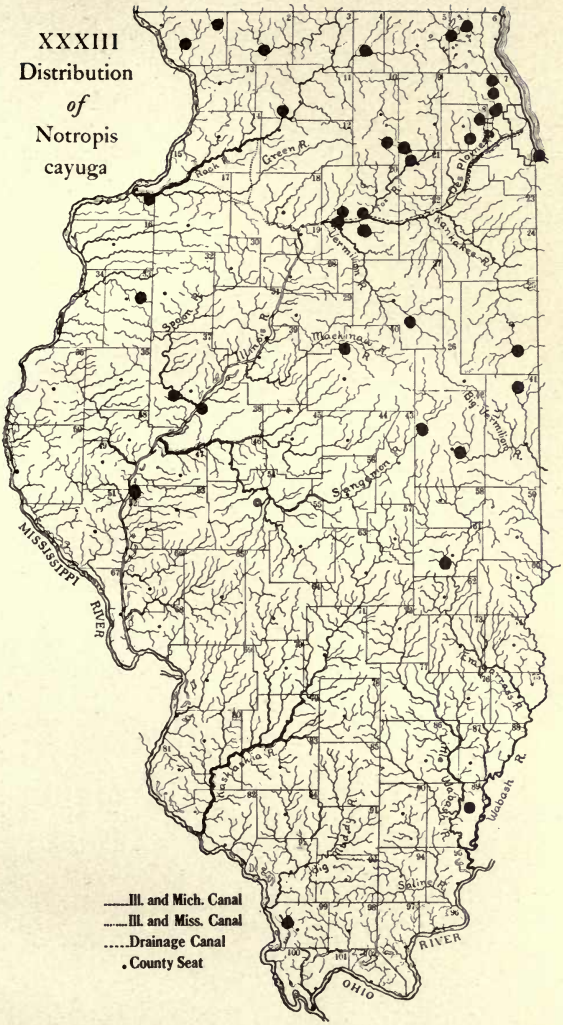
crysoleucas



XXXII
Distribution
of
Cliola
vigilax



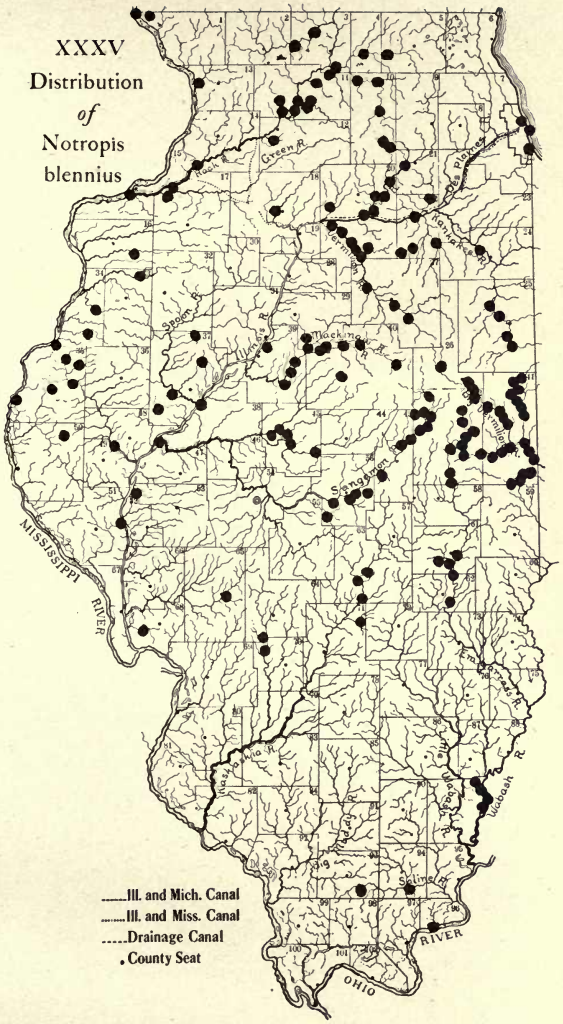
XXXIII
Distribution
of
Notropis
cayuga



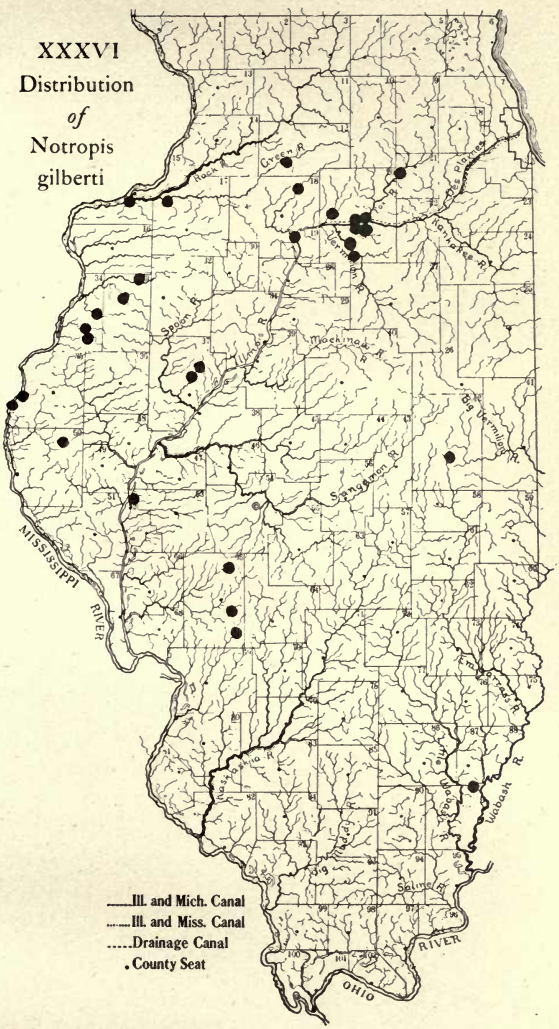
XXXIV
Distribution
of
Notropis
heterodon

XXXV

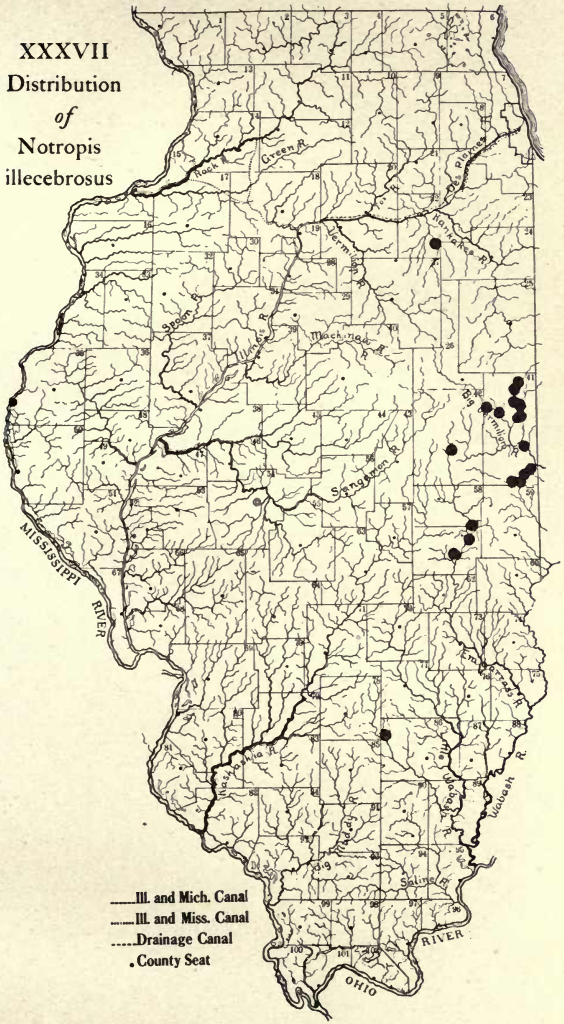
Distribution *of* Notropis blennius



XXXVI
Distribution
of
Notropis
gilberti



XXXVII
Distribution
of
Notropis
illecebrosus



XXXVIII

Distribution *of* Notropis hudsonius

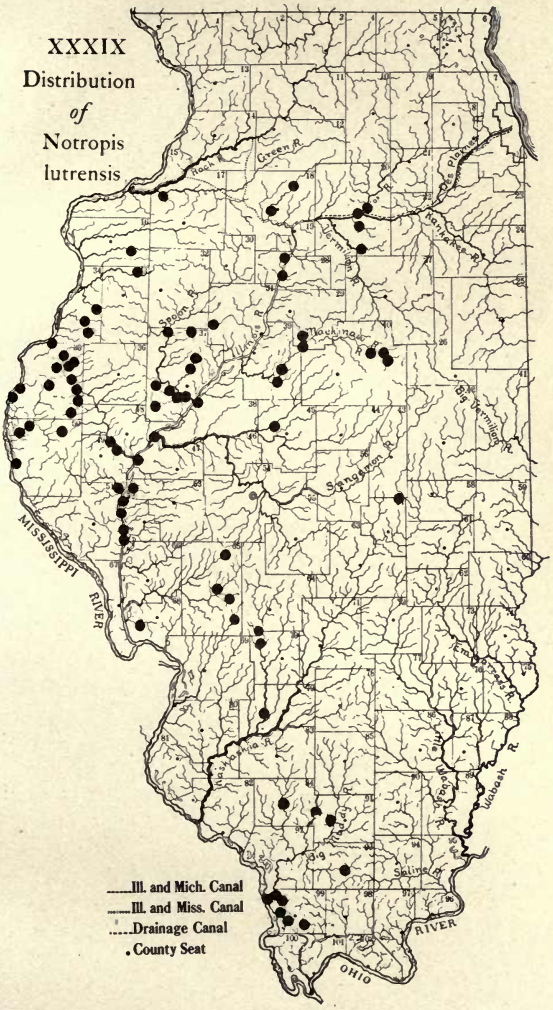
XXXIX

Distribution

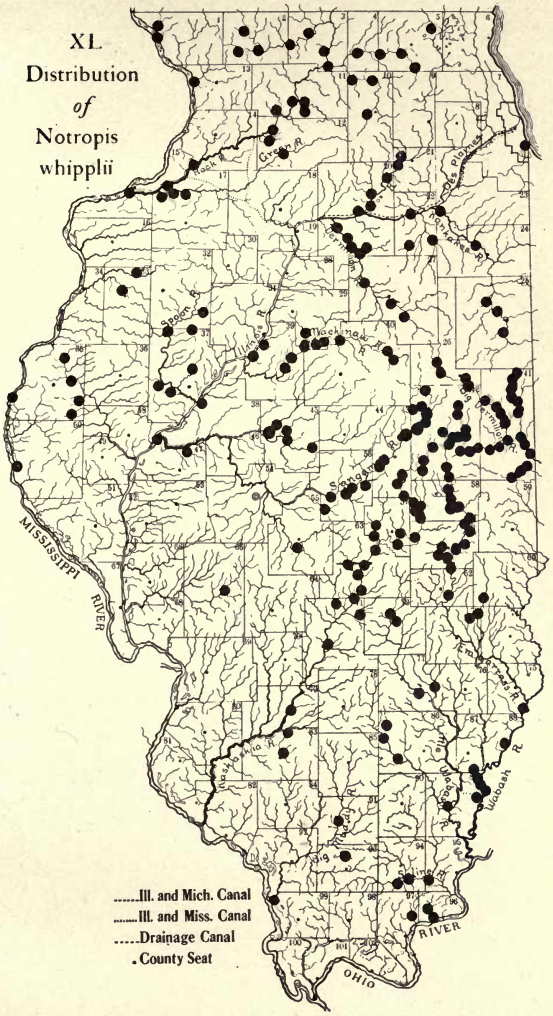
of

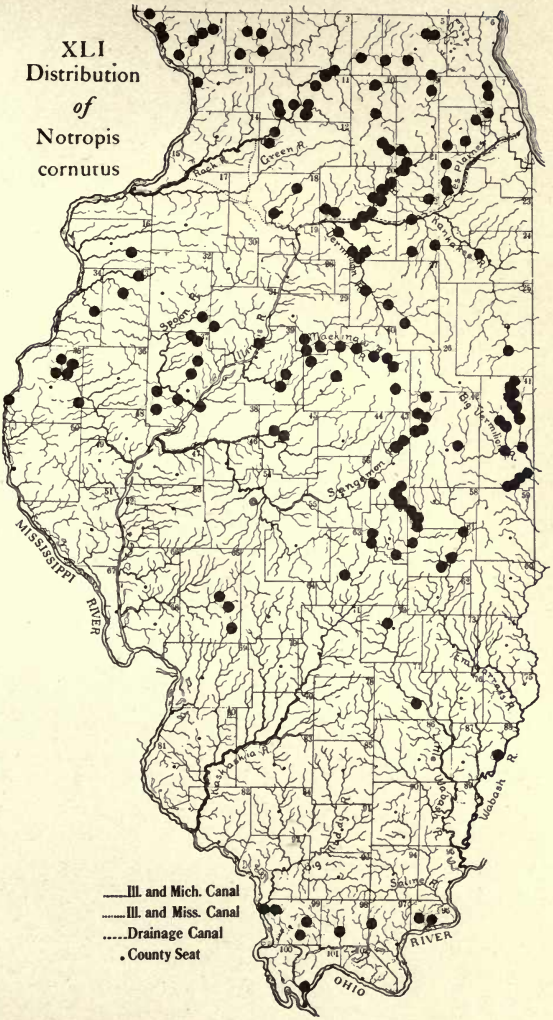
Notropis

lutrensis

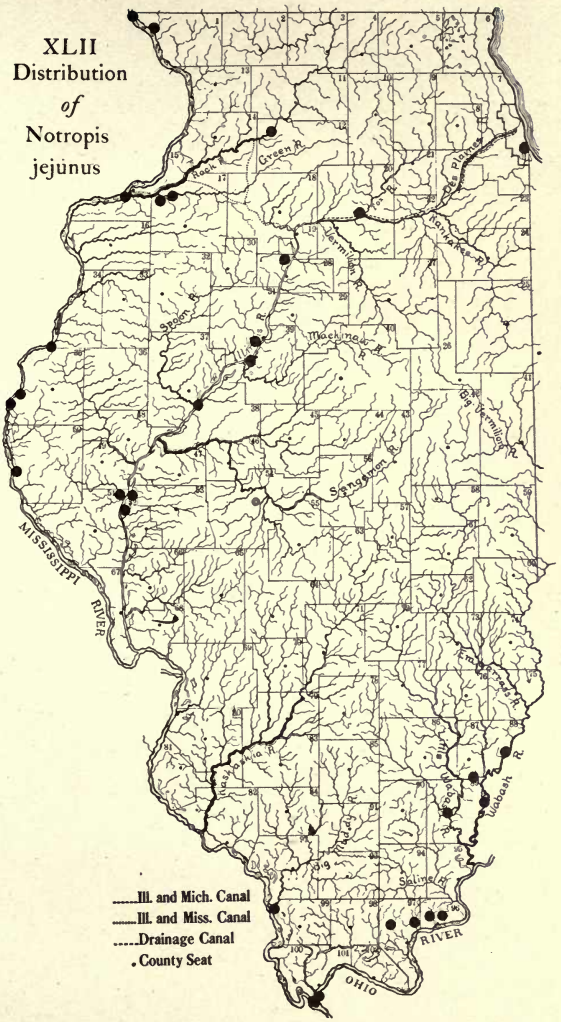


XL.
Distribution
of
Notropis
whipplii




XLI
Distribution
of
Notropis
cornutus
Rock R.
Green R.
Illinois R.
Spoon R.
Sangamon R.
Kaskaskia R.
Wabash R.
Big Muddy R.
Saline R.
MISSISSIPPI RIVER
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

XLII
Distribution
of
Notropis
jejunus



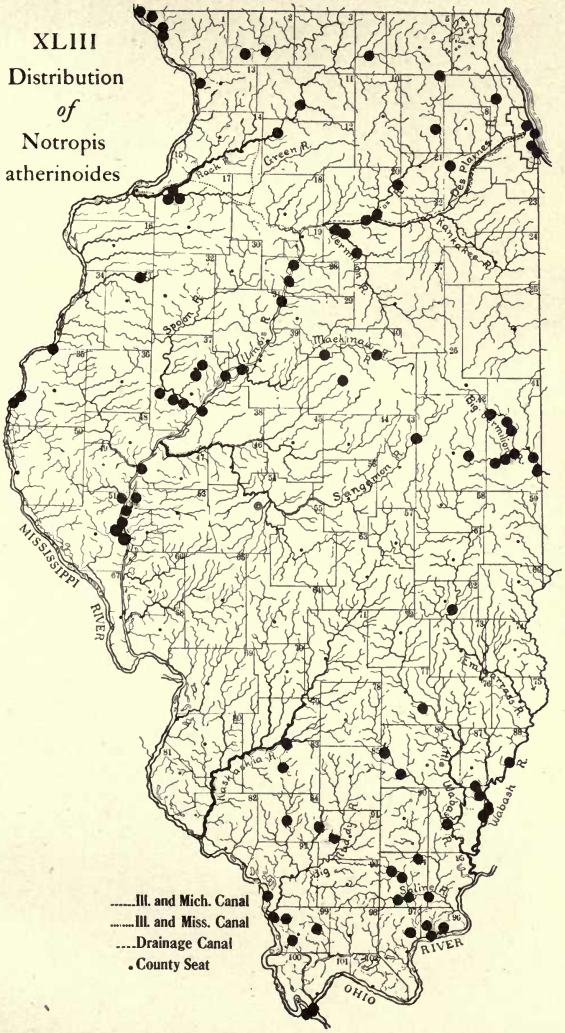
XLIII

Distribution

of

Notropis

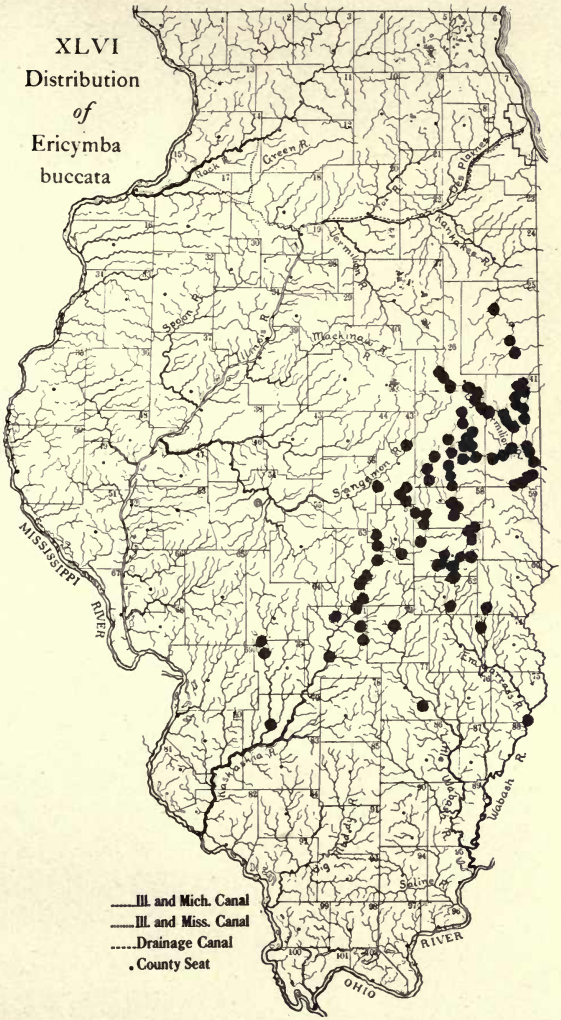
atherinoides



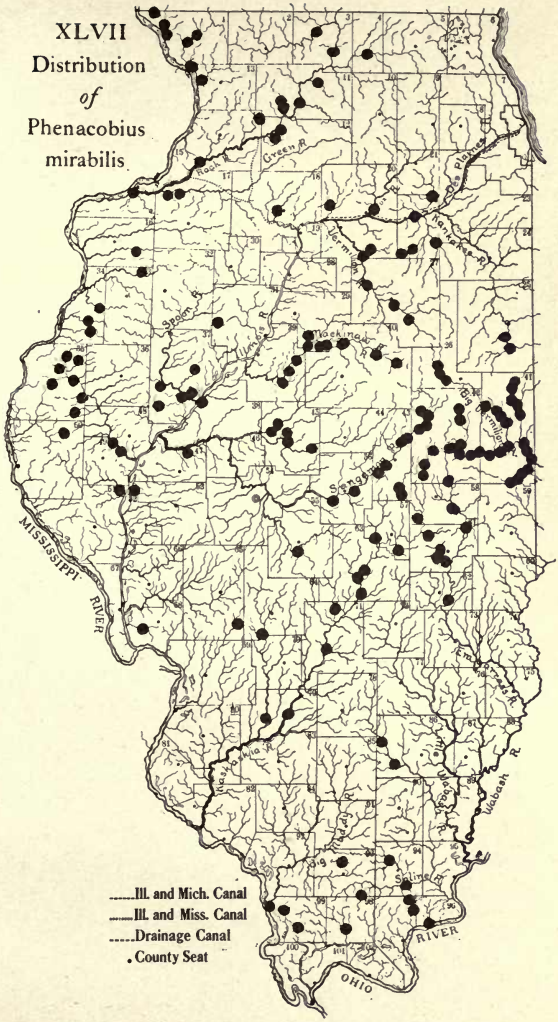
XLIV
Distribution
of
Notropis
rubrifrons

XLV
Distribution
of
Notropis
umbratilis
atripes

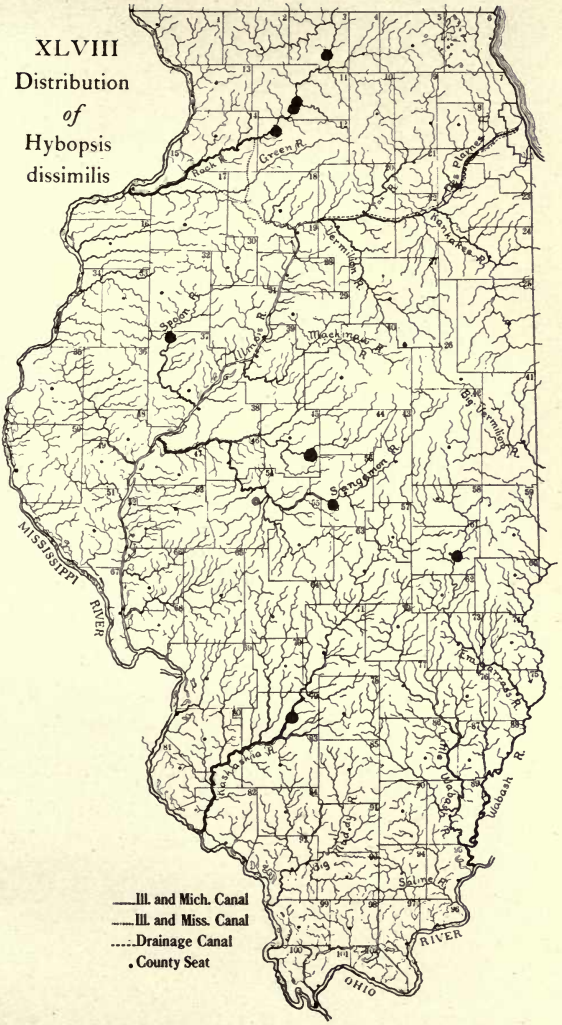
XLVI
Distribution
of
Ericymba
buccata



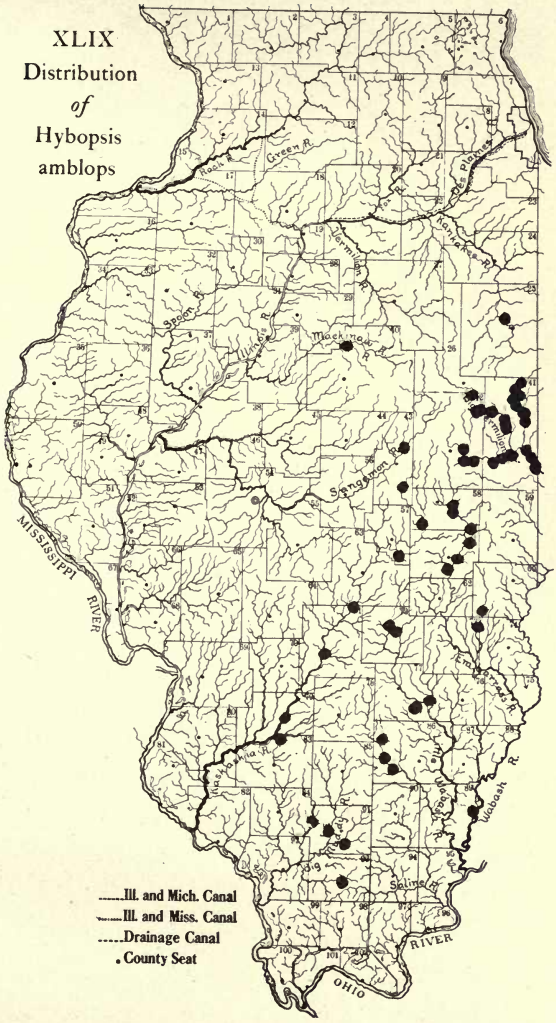
XLVII
Distribution
of
Phenacobius
mirabilis



XLVIII
Distribution
of
Hybopsis
dissimilis



XLIX
Distribution
of
Hybopsis
amblops



L

Distribution *of* Hybopsis storerianus

LI

Distribution *of* Hybopsis kentuckiensis

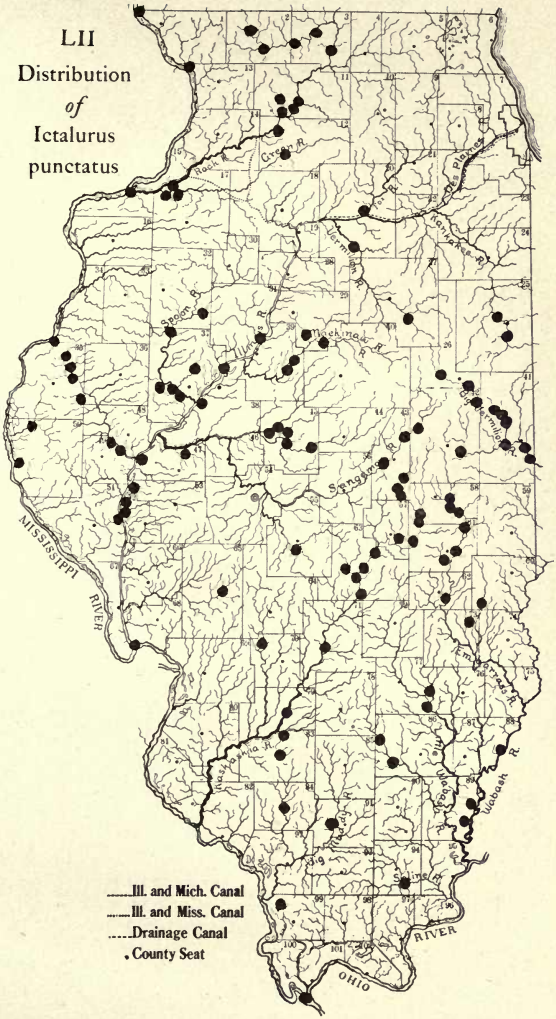
LII

Distribution

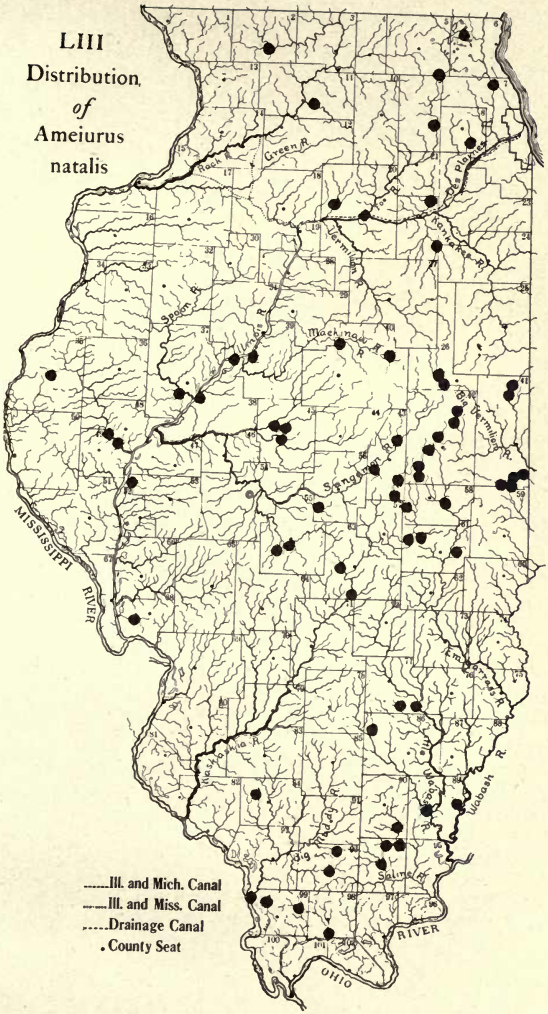
of

Ictalurus

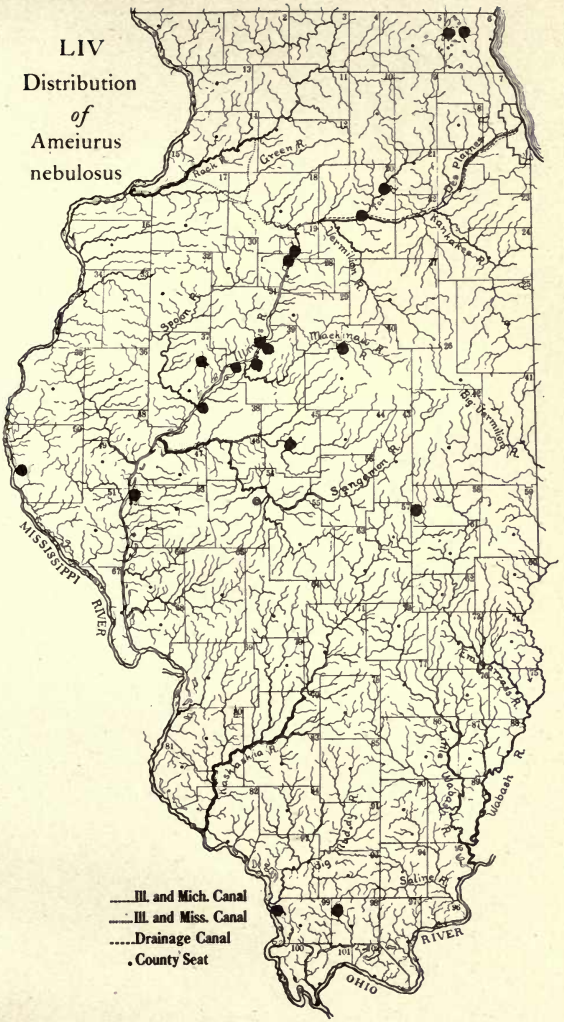
punctatus



LIII
Distribution
of
Ameiurus
natalis



LIV
Distribution
of
Ameiurus
nebulosus



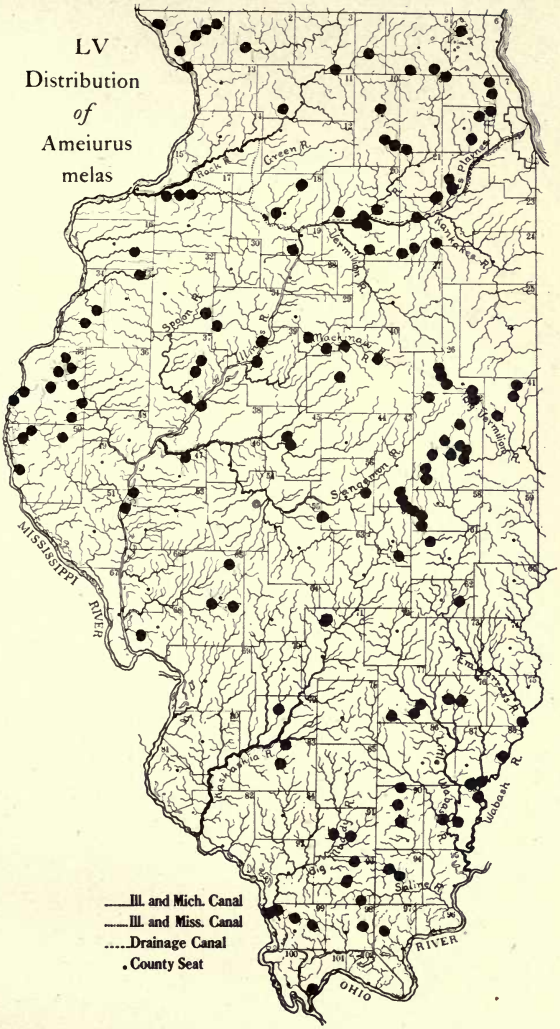
LV

Distribution

of

Ameiurus

melas



LVI
Distribution
of
Leptops
olivaris

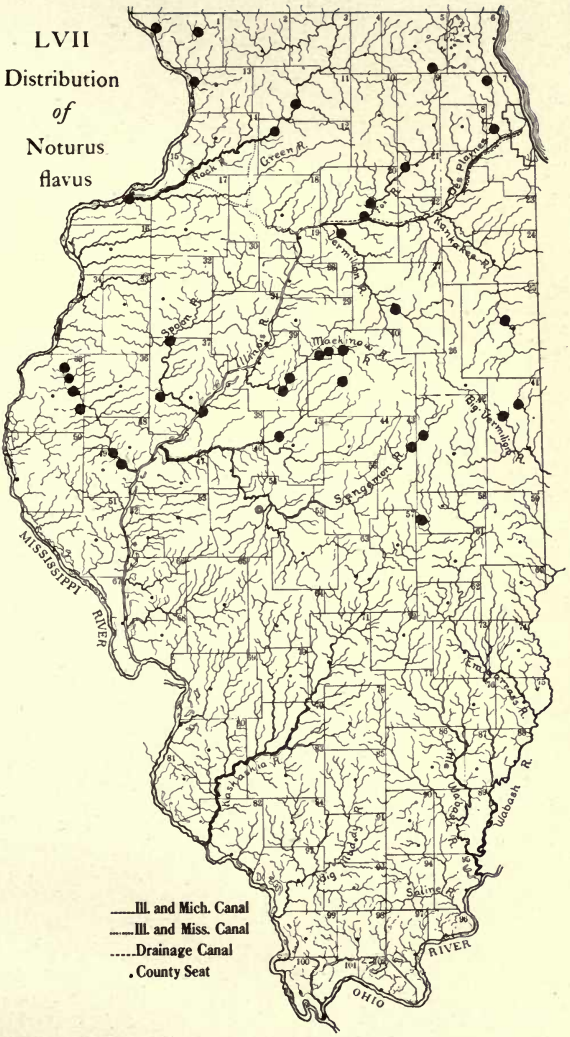
LVII

Distribution

of

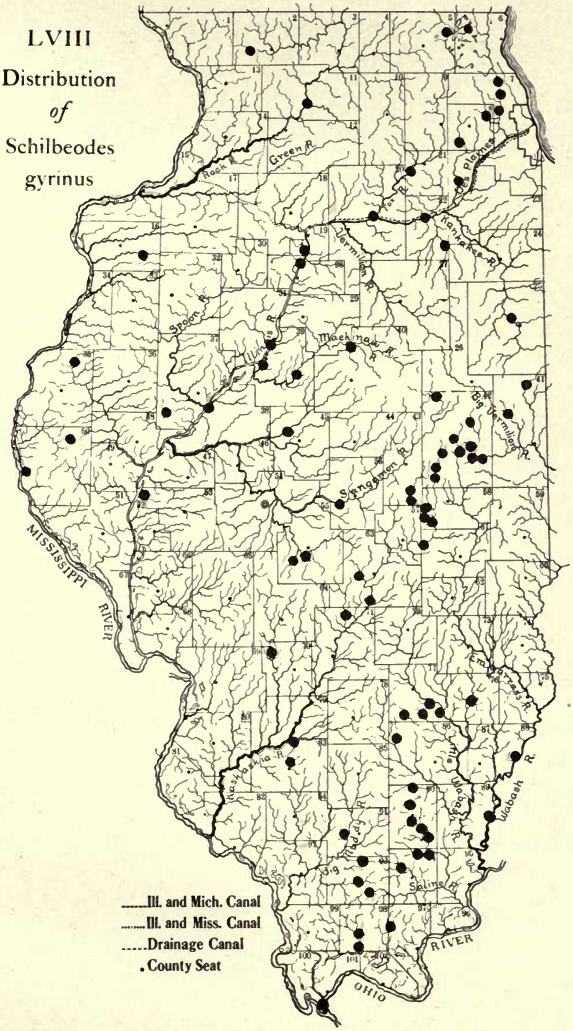
Noturus

flavus



LVIII

Distribution *of* Schilbeodes gyrinus



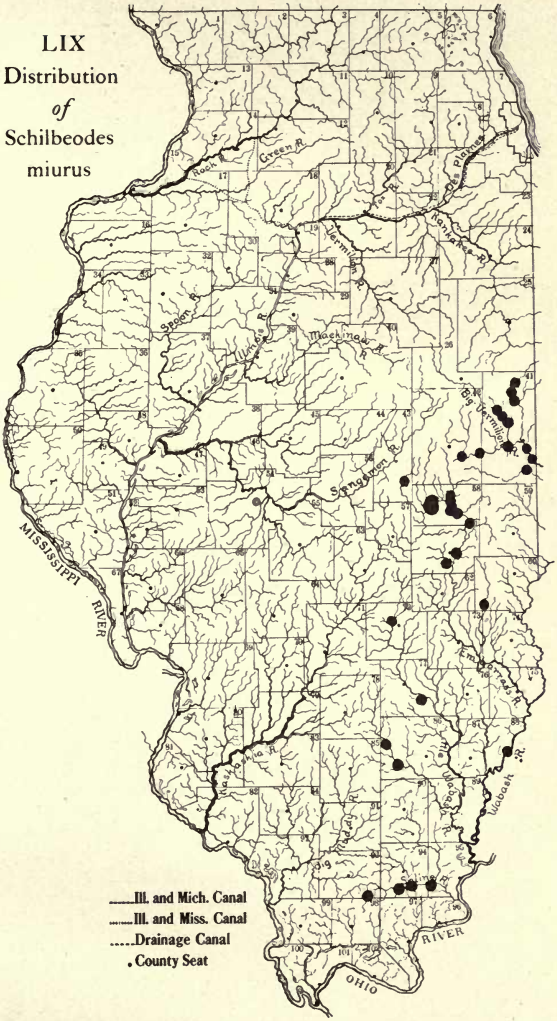
LIX

Distribution

of

Schilbeodes

miurus



LX

Distribution *of* Umbra limi

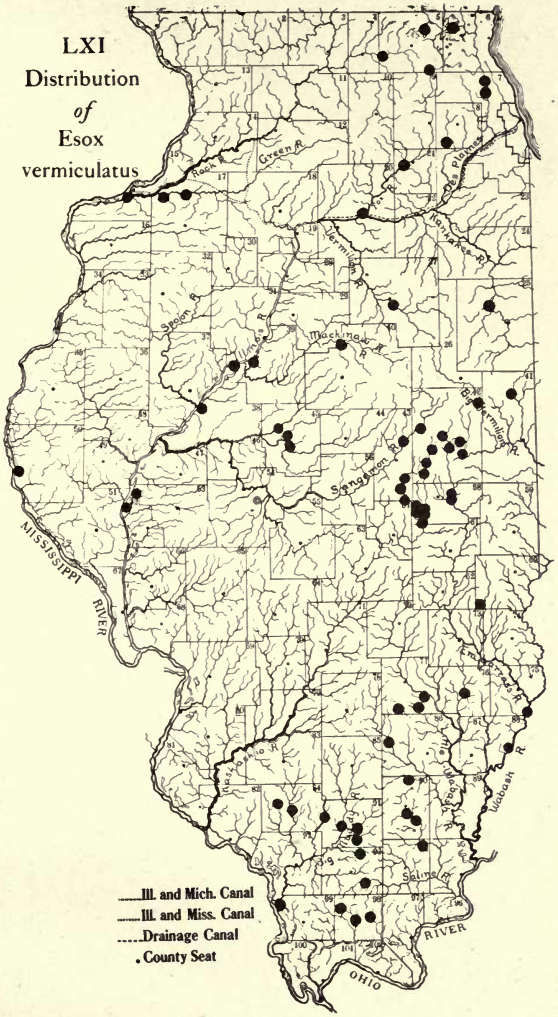
LXI

Distribution

of

Esox

vermiculatus

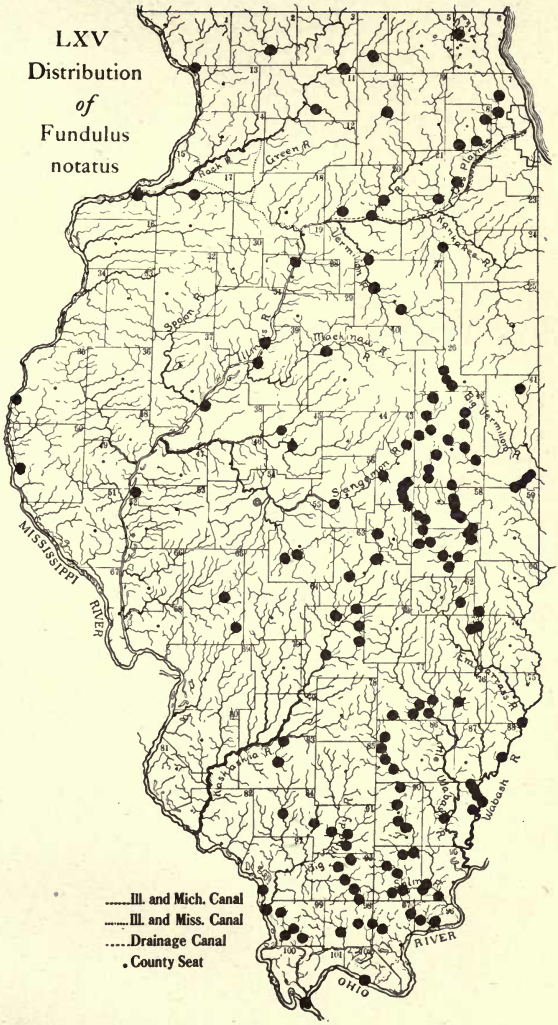


LXII
Distribution
of
Esox
lucius

LXIII
Distribution
of
Fundulus
diaphanus
menona

LXIV
Distribution
of
Fundulus
dispar

LXV
Distribution
of
Fundulus
notatus



LXVI

Distribution

of

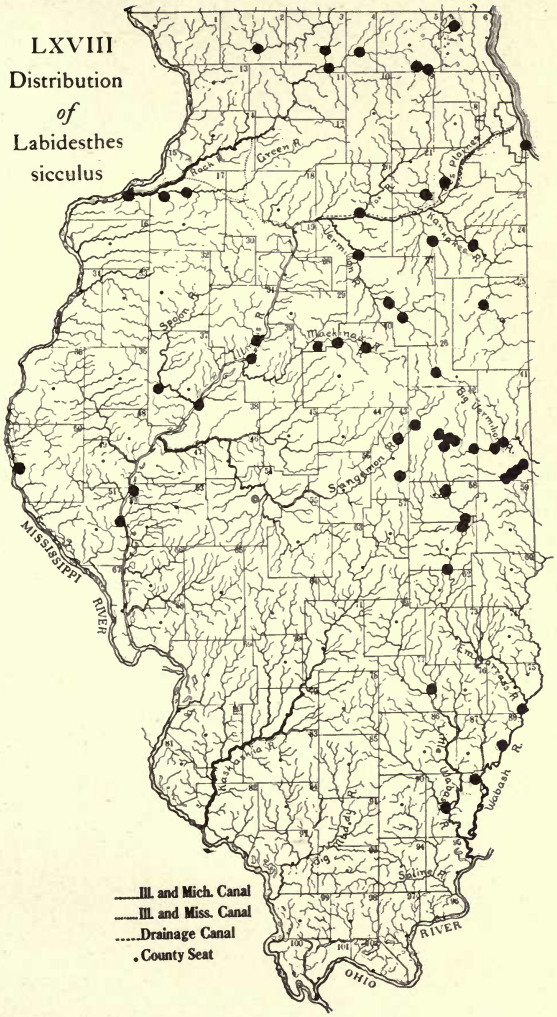
Gambusia

affinis

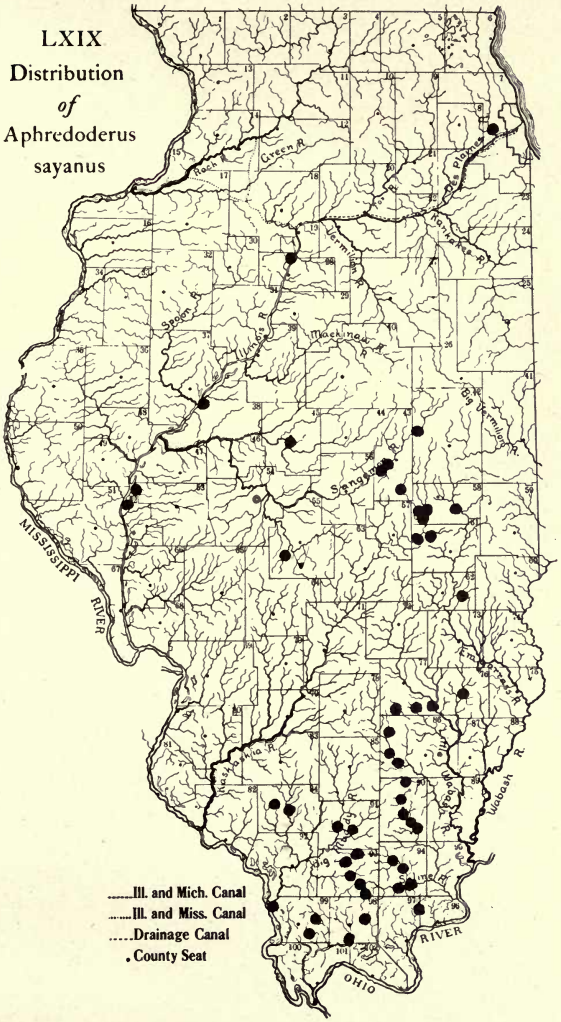
LXVII

Distribution *of* Percopsis guttatus

LXVIII
Distribution
of
Labidesthes
sicculus

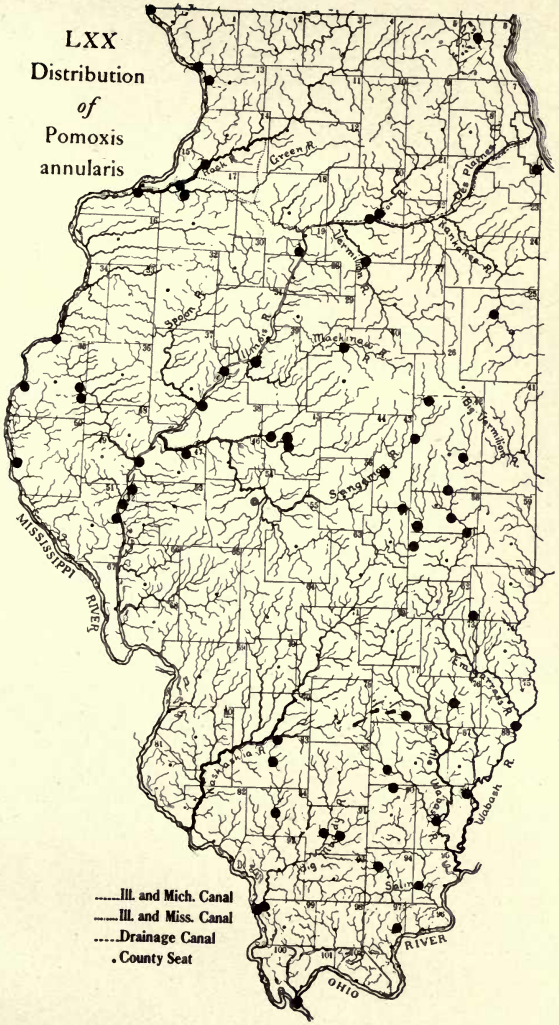


LXIX
Distribution
of
Aphredoderus
sayanus



LXX

Distribution *of* Pomoxis annularis



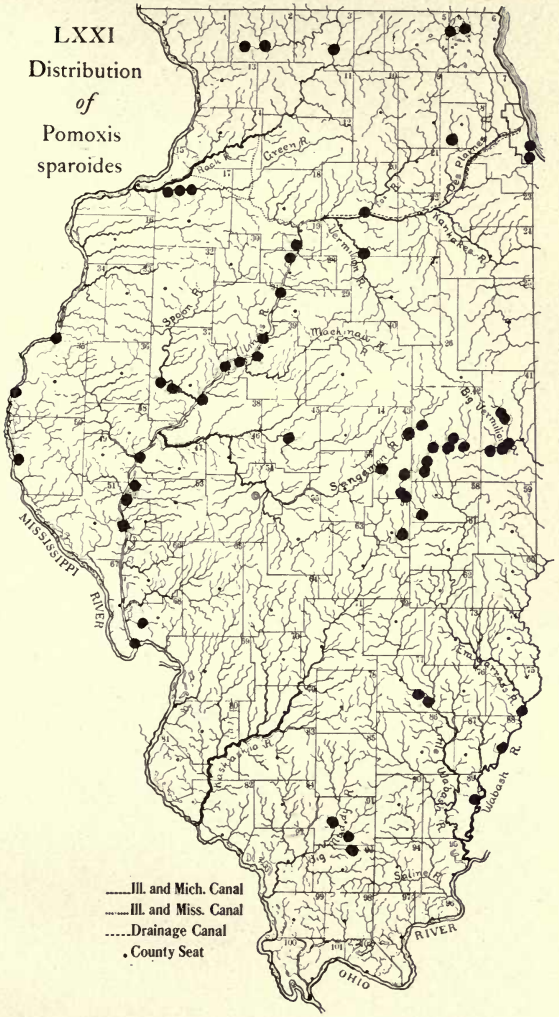
LXXI

Distribution

of

Pomoxis

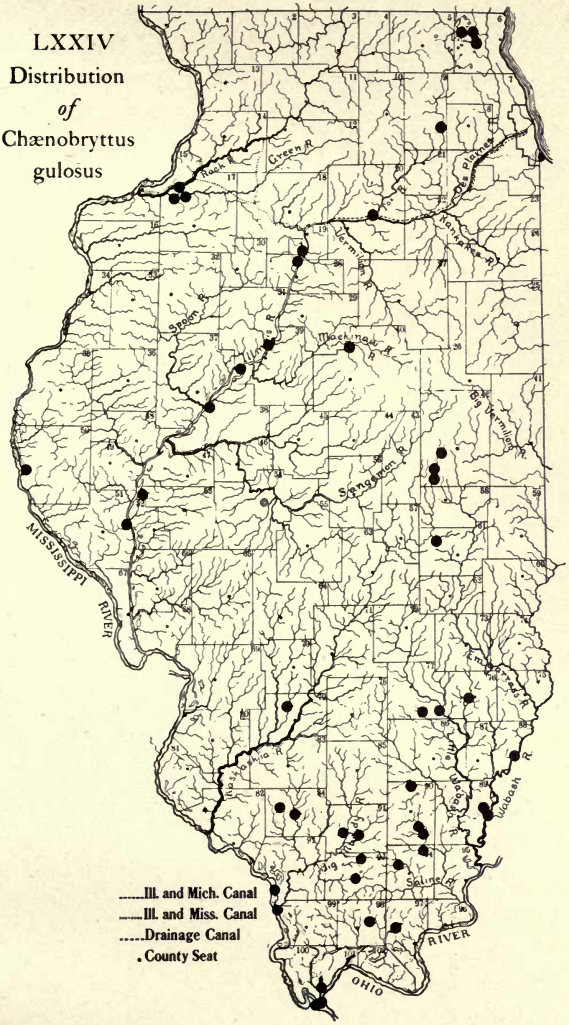
sparoides



LXXII
Distribution
of
Centrarchus
macropterus

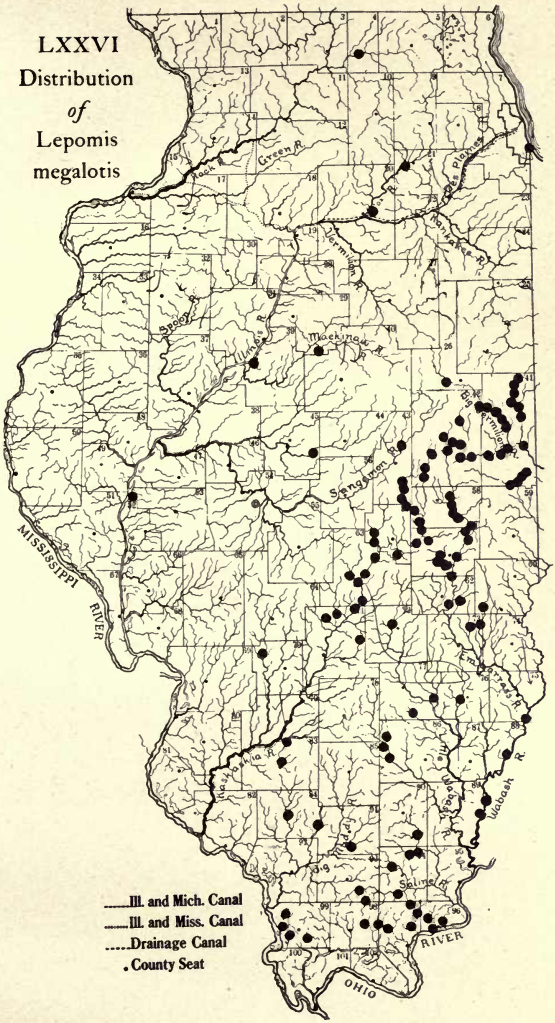
LXXIII
Distribution
of
Ambloplites
rupestris

LXXIV
Distribution
of
Chænobryttus
gulosus

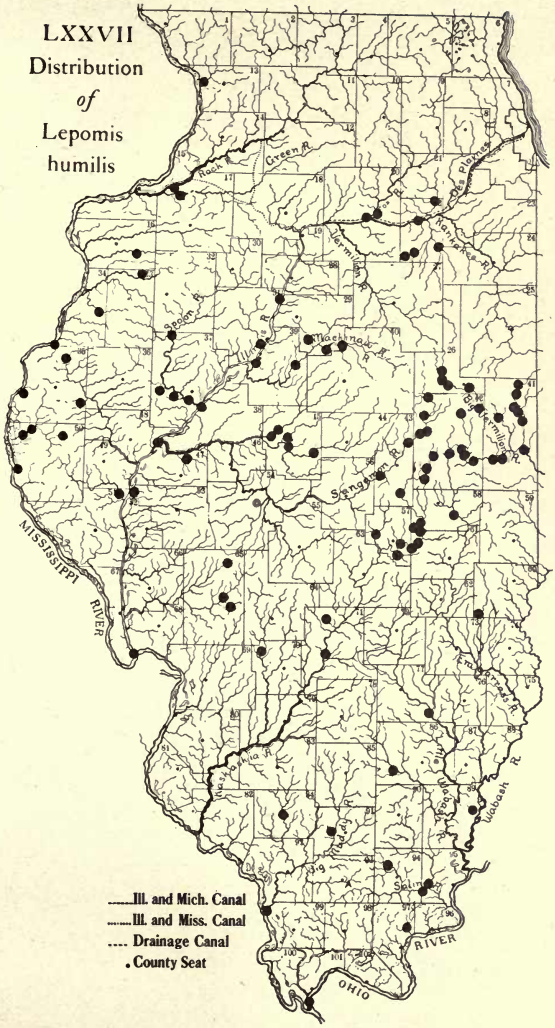


LXXV
Distribution
of
Lepomis
miniatus

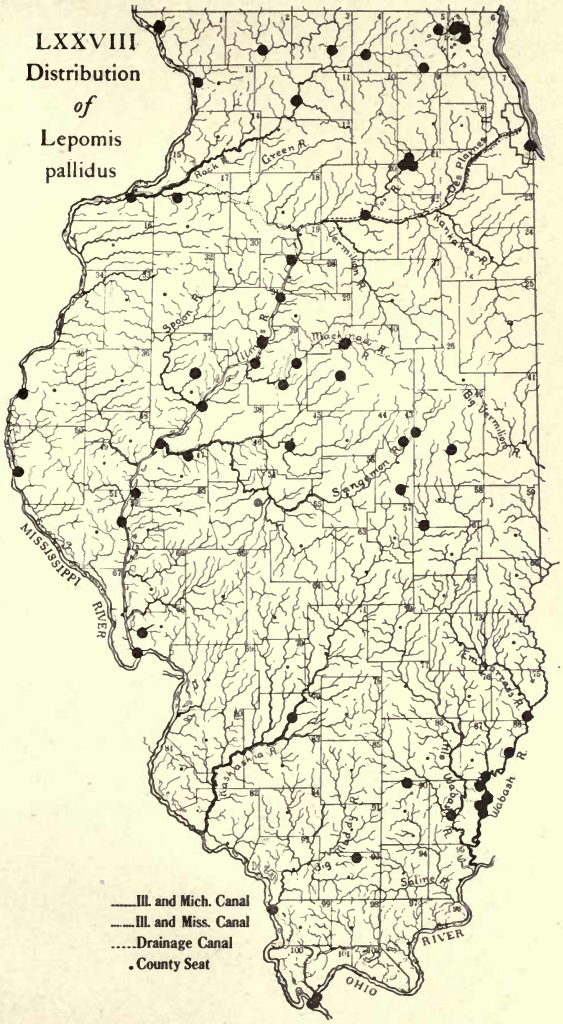
LXXVI
Distribution
of
Lepomis
megalotis



LXXVII
Distribution
of
Lepomis
humilis

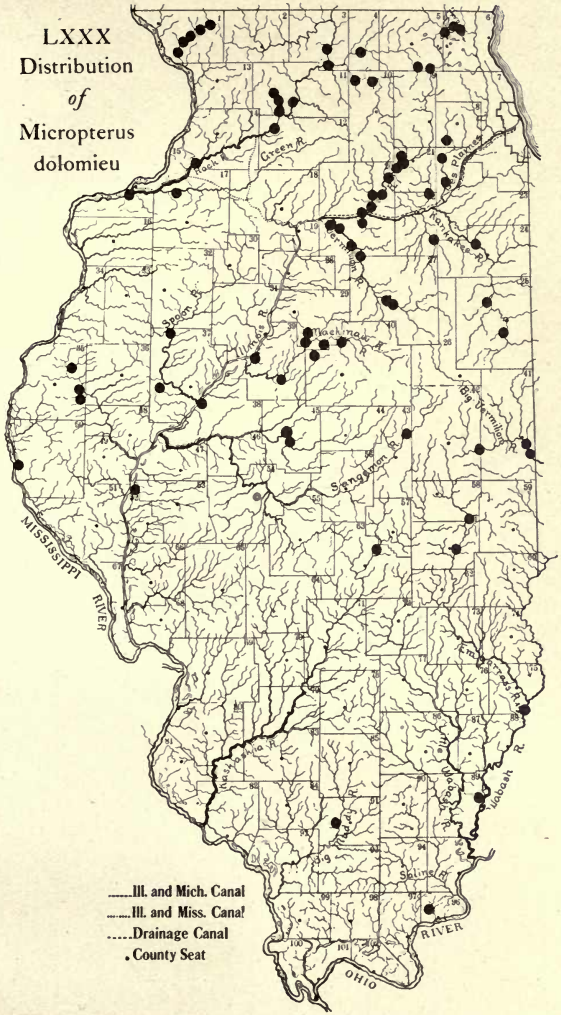


LXXVIII
Distribution
of
Lepomis
pallidus

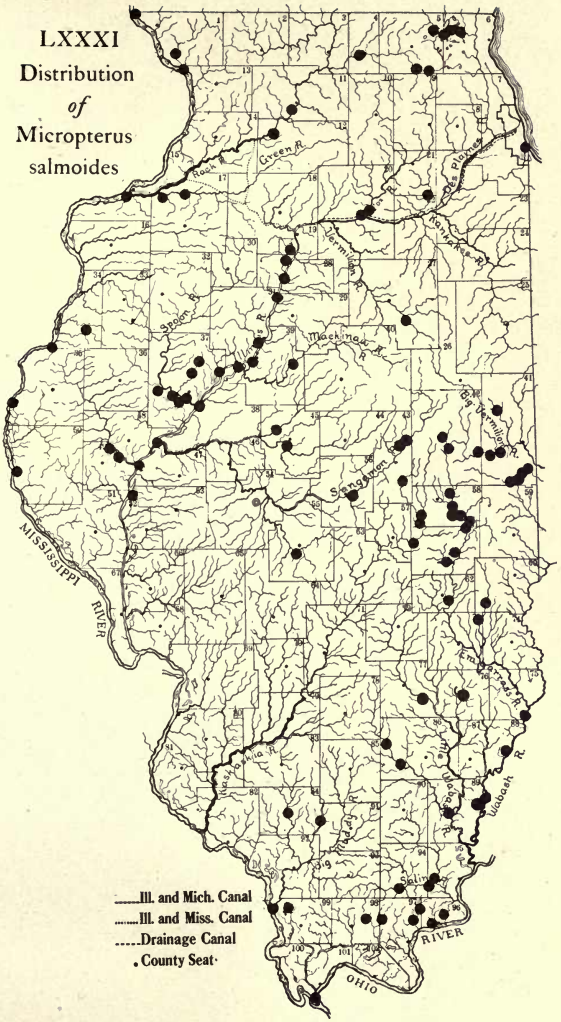


LXXIX.
Distribution
of
Eupomotis
gibbosus

LXXX
Distribution
of
Micropterus
dolomieu



LXXXI
Distribution
of
Micropterus
salmoides

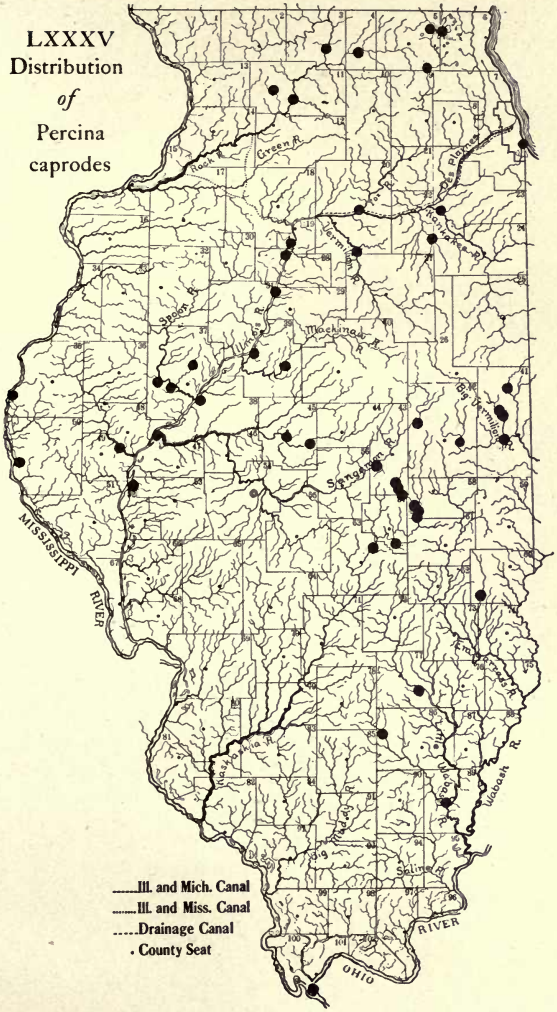


LXXXII
Distribution
of
Stizostedion
vitreum

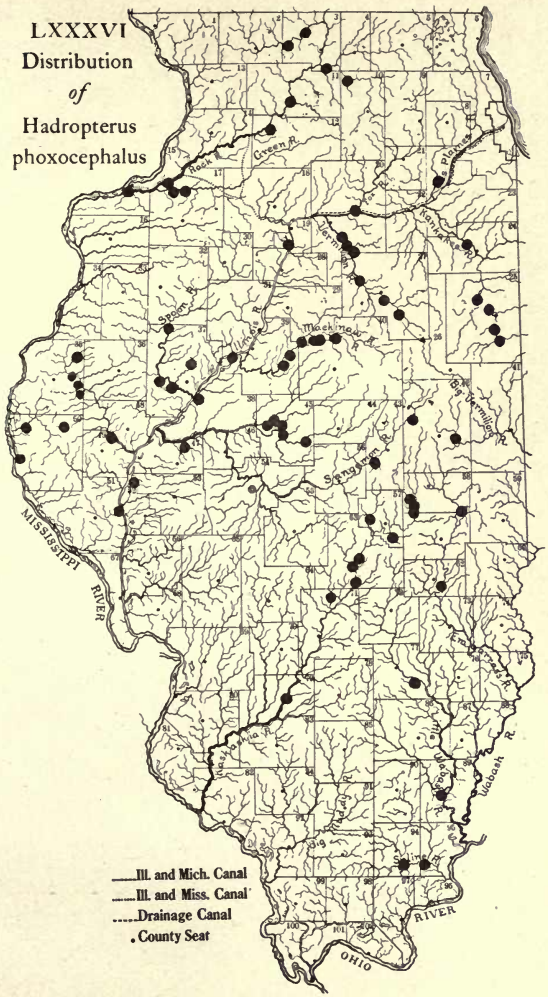
LXXXIII
Distribution
of
Stizostedion
canadense
griseum

LXXXIV
Distribution
of
Perca
flavescens
Rock R.
Green R.
Spoon R.
Illinois R.
Mackinaw R.
Sangamon R.
Embarras R.
Wabash R.
Little Wabash R.
Skillet Fork
Big Muddy R.
MISSISSIPPI RIVER
OHIO RIVER
Ill. and Mich. Canal
Ill. and Miss. Canal
Drainage Canal
County Seat

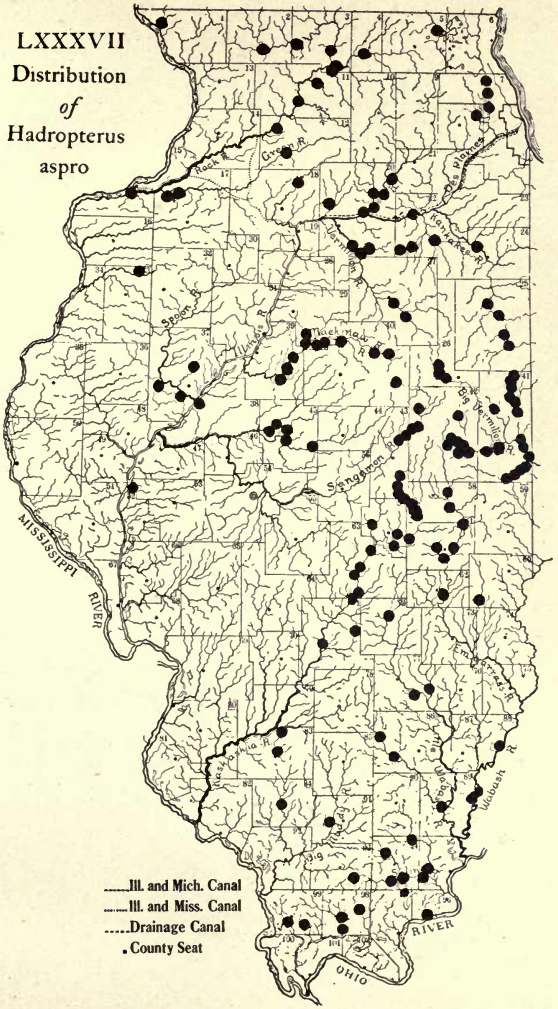
LXXXV
Distribution
of
Percina
caprodes



LXXXVI
Distribution
of
Hadropterus
phoxocephalus

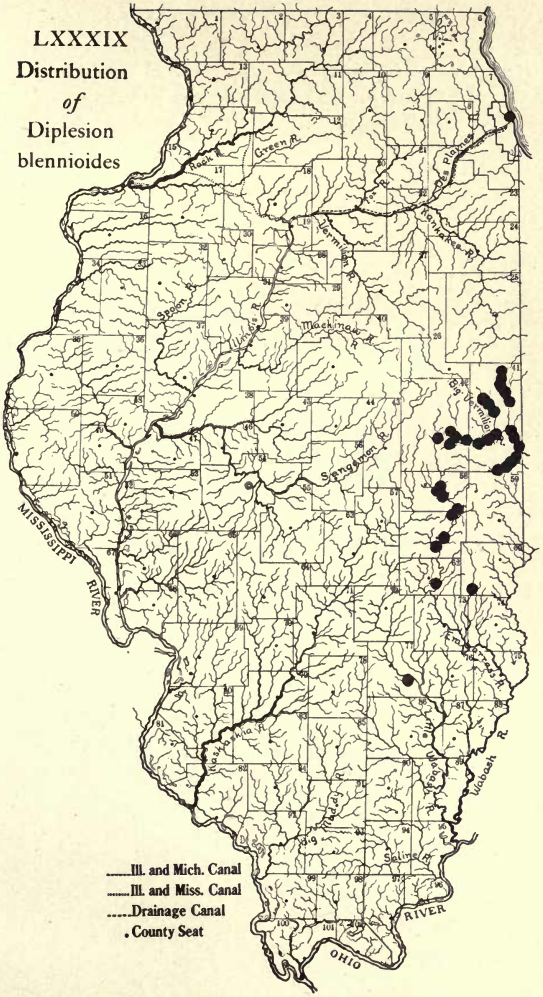


LXXXVII
Distribution
of
Hadropterus
aspro

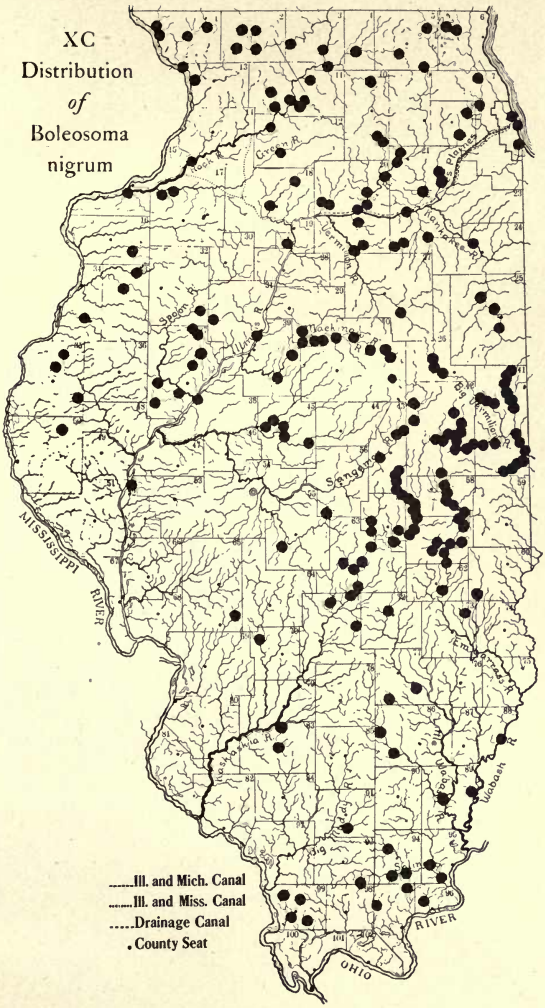


LXXXVIII
Distribution
of
Cottogaster
shumardi

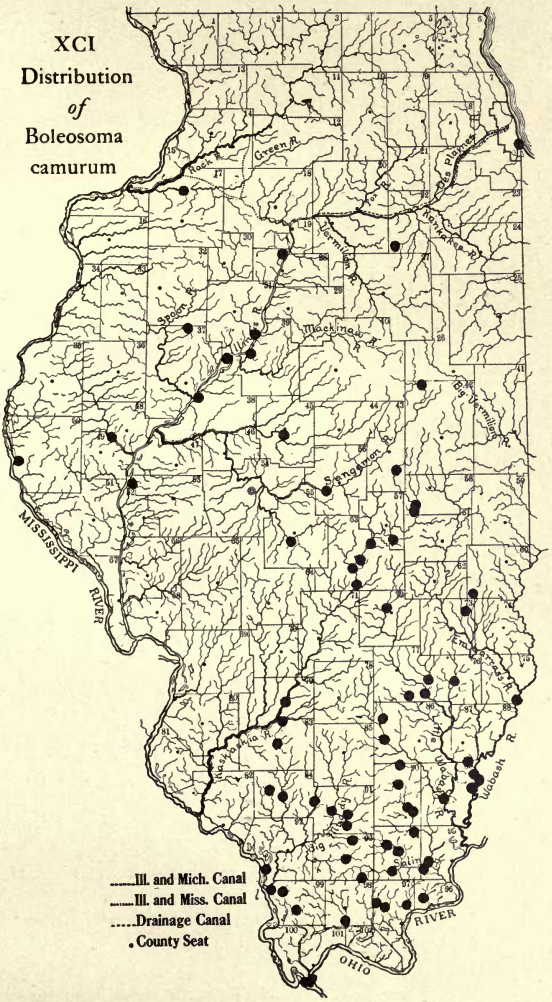
LXXXIX
Distribution
of
Diplesion
blennioides



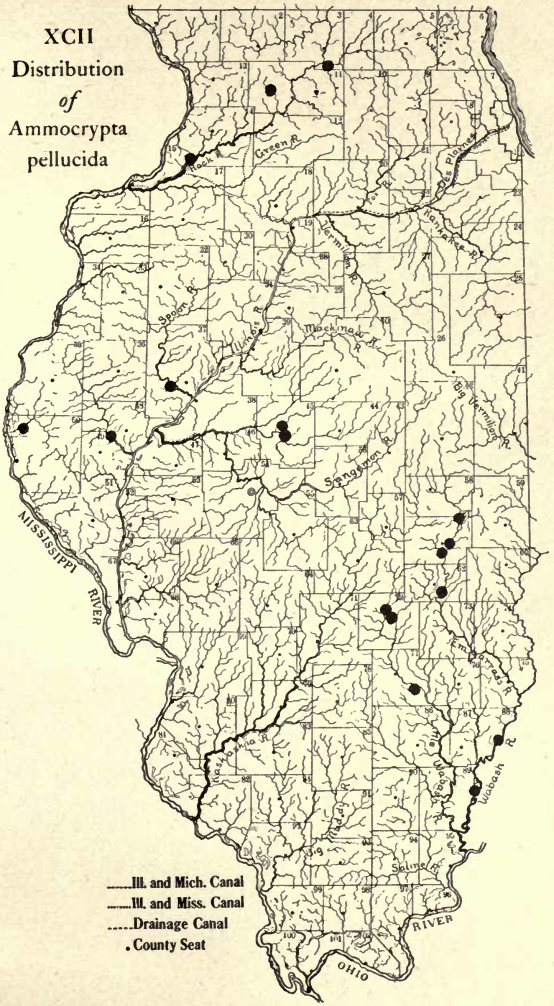
XC
Distribution
of
Boleosoma
nigrum



XCI
Distribution
of
Boleosoma
camurum

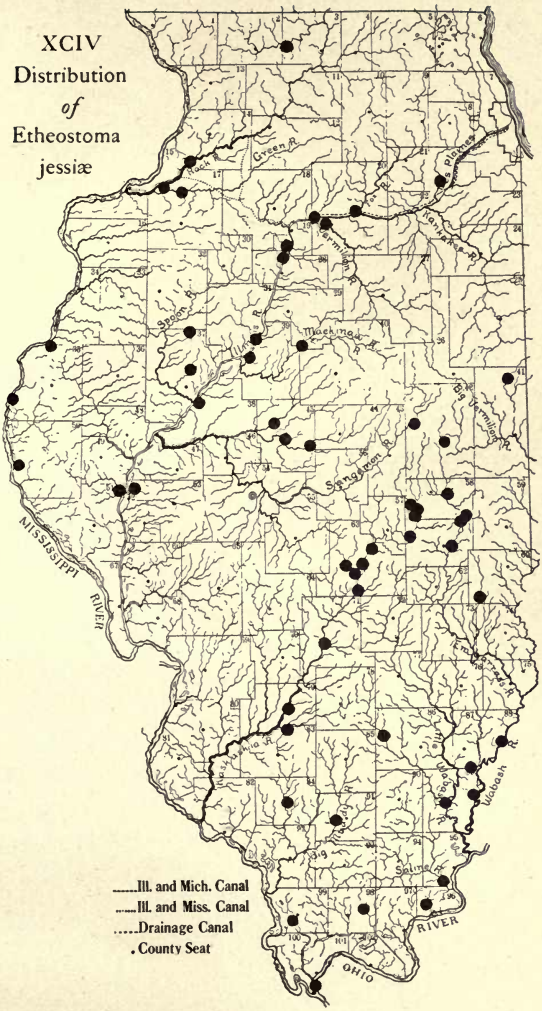


XCII
Distribution
of
Ammocrypta
pellucida

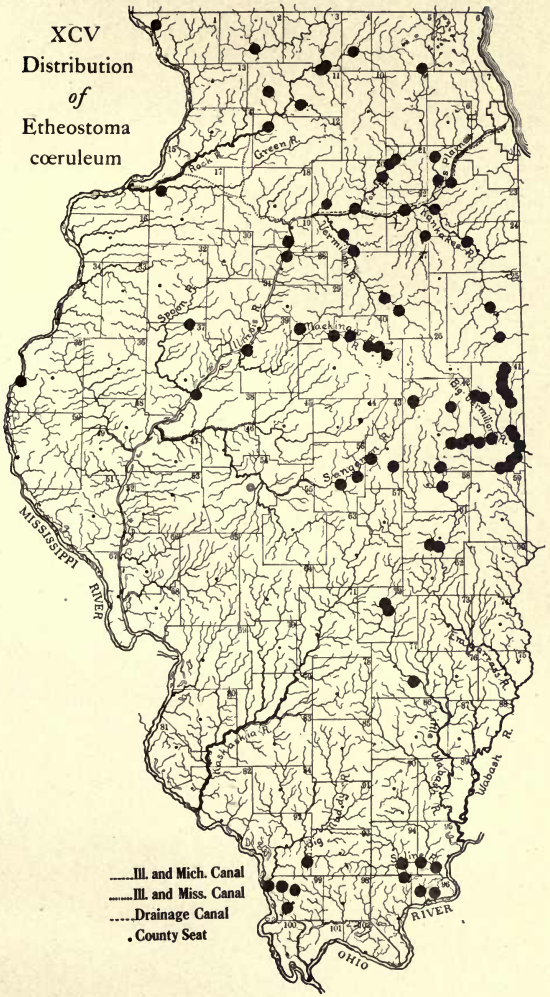


XCIII
Distribution
of
Etheostoma
zonale

XCIV
Distribution
of
Etheostoma
jessiæ

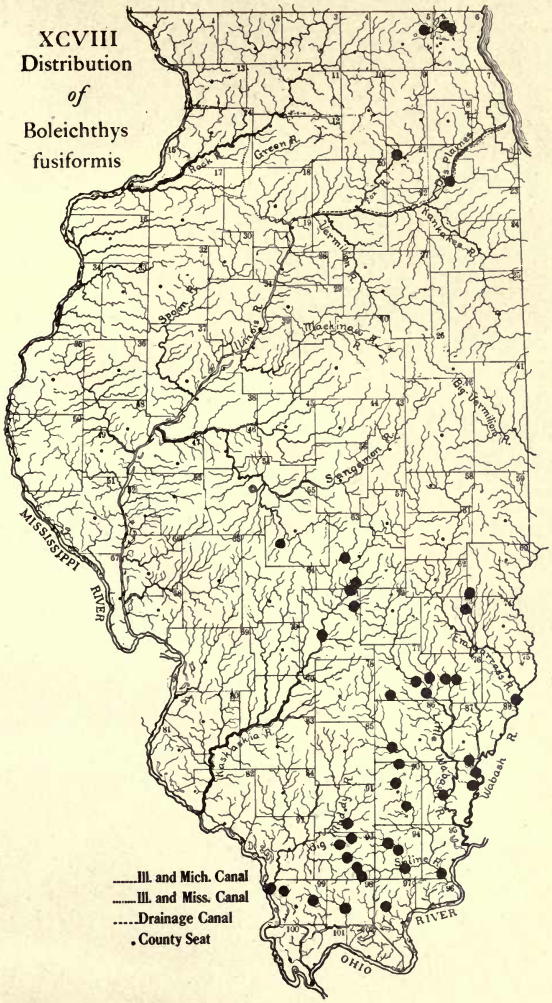


XCV
Distribution
of
Etheostoma
cœruleum



XCVI
Distribution
of
Etheostoma
squamiceps

XCVII
Distribution
of
Etheostoma
flabellare


XCVIII
Distribution
of
Boleichthys
fusiformis
Green R.
Rock R.
Illinois R.
Vermilion R.
Sangamon R.
Kaskaskia R.
Wabash R.
Embarras R.
Little Wabash R.
MISSISSIPPI RIVER
OHIO RIVER
Ill. and Mich. Canal
Ill. and Miss. Canal
Drainage Canal
County Seat

XCIX
Distribution
of
Microperca
punctulata

C
Distribution
of
Roccus
chrysops

Cl
Distribution
of
Morone
interrupta
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Iroquois R.
Sangamon R.
Vermilion R.
Embarras R.
Wabash R.
Little Wabash R.
Kaskaskia R.
Big Muddy R.
Saline R.
MISSISSIPPI RIVER
OHIO RIVER
Ill. and Mich. Canal
Ill. and Miss. Canal
Drainage Canal
County Seat

CII

Distribution

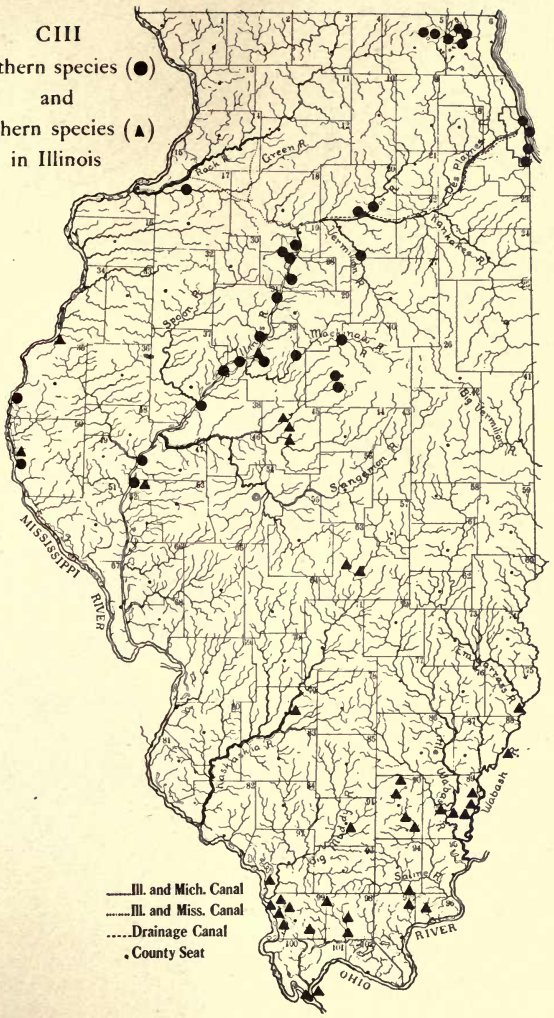
of

Aplodinotus

grunniens

CIII

Northern species (●)
and
Southern species (▲)
in Illinois



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Maps showing distribution
of Illinois fishes.

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Maps showing distribution
of Illinois fishes.

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